NACOmatic

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GENERAL INFORMATION This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the FAA

Department of Transportation, National Aeronautical Navigation Services, Silver Spring, Maryland 20910. It is designed fo

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is

CORRECTIONS, COMMENTS, AND/OR PROCUREMENT CRITICAL information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as

use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

Washington, DC 20591 Telephone 1-866-295-8236 Fax 202-267-5322 Email 9-ATOR-HQ-AIS-AIRPORTCHANGES@FAA.GOV

FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE: http://nfdc.faa.gov/portal/airportchanges.do FAA, Aeronautical Information Services, ATO-R, Rm. 626

soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

800 Independence Ave., SW

navigational facilities and certain special notices and procedures.

applicable to civil users.

NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

Airenage Information*

	All pur t illiurillation	All Space Illiui Illatiuii
Effective Date	Cut-off date	Cut-off date
23 Sep 10	11 Aug 10	22 Jul 10
18 Nov 10	6 Oct 10	16 Sep 10
13 Jan 11	1 Dec 10	11 Nov 10
10 Mar 11	26 Jan 11	6 Jan 11
5 May 11	23 Mar 11	3 Mar 11
30 Jun 11	18 May 11	28 Apr 11

Airport Information

FOR CHARTING ERRORS CONTACT:

FAA, National Aeronautical Navigation Services

SSMC-4 Sta. #4435

1305 East West Highway

Silver Spring, MD 20910-3281

Telephone 1-800-626-3677

Email 9-AMC-Aerochart@faa.gov

Frequently asked questions (FAQs) are answered on our website at http://aeronav.faa.gov.

See the FAQs prior to contact via toll free number.

FOR PROCUREMENT CONTACT:

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Telephone 1-800-638-8972

Fax 301-436-6829

or any authorized chart agent.

New or Changed Information—To alert users of new information or changes to information from the previous issue, a vertical

line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.

^{*}Including changes to preferred routes and graphic depictions on charts.

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ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms m be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatic variations of the basic form. (Example-"req" may mean "request", "requesting", "requested", or "requests"). Army Air Field byd bevond AAF

Airbase C Commercial Circuit (Telephone) AB CGAF Coast Guard Air Facility abv ahove

ACC Air Combat Command: Area Control CGAS Coast Guard Air Station Center CIV Civil

acft aircraft clsd closed

ADCC Air Defense Control Center comd command

approach end rwy CONUS Continental United States AFR

CSTMS AFB Customs

Air Force Base

AFHP Air Force Heliport ctc contact

airfield control ctl

afld

AFOD US Army Flight Operations Detachment dalgt daylight

Dec December

AFRC Armed Forces Reserve Center/Air Force

Reserve Command DIAP DoD Instrument Approach Procedure

Automated Flight Service Station DoD **AFSS** Department of Defense

Agriculture DSN AG

Defense Switching Network (Telephon

A-GEAR Arresting Gear dsplcd displaced durn duration ΔGI above ground level

AHP Army heliport eff effective ALS Approach Light System emerg emergency

alt altitude FOR End of Runway AMC Air Mobility Command ETA Estimated Time of Arrival

Air National Guard Station ETD Estimated Time of Departure ANGS approach exc except anch

April Apr extd extend

APU Auxiliary Power Unit FRO fixed-base operator

ARR Air Reserve Base Feb February

arpt airport fld field Air Reserve Station FLIP Flight Information Publication ARS

AS Air Station flt flight

ASDE-X Airport Surface Detection Equipmentfollow flw

Model X Fri Friday

ASU Aircraft Starting Unit Flight Service Station

ATC Air Traffic Control GΑ glide angle

ATCT Airport Traffic Control Tower GCA Ground Controlled Approach

Aug August GS glide slope

All Up Weight (gross weight) haz hazard available

ΔΠΙΜ ΗQ avhl Headquarters bcn heacon

CONTINUED ON NEXT PAGE

GENERAL INFORMATION

3

CONTINUED FROM PRECEDING PAGE

	npi	non precision instrument
Procedure	NS ABTMT	Noise Abatement

ΙΔΡ Instrument Approach F e Ahatement ICAO

hr

lan

JASU

IOAP

IRR

hul

lun

Κt LAA

lhs

ldø

lgtd

lgts LMM

LOC

LOM

MACC

MCAF

MCALE

MCAS

MCB

med

Mil

min

MIS

MM

Mon

MP

MSL

MSAW

NAAS

NADO

NAEC

NAES

NALCO

NALO NALE

NAS

NAWC

NAWS ngt

NOLF

Nov

NAF

NADEP

MFTRO

Mar

ltd

LAHSO

JOSAC

hour

January

July

June

Knots

nounds

landing

lighted

Localizer

limited

March

medium

military

minute

Monday

lights

Jet Aircraft Starting Unit

Joint Reserve Base

Local Airport Advisory

Land and Hold Short Operations

Compass locator at Middle Marker ILS

Compass locator at Outer Marker ILS

Marine Corps Auxiliary Landing Field

Military Area Control Center

Marine Corps Air Facility

Marine Corps Air Station

Pilot-to-Metro voice call

Middle Marker of ILS

Maintenance Period

mean sea level

Naval Air Depot

Naval Air Facility

Naval Air Station

Naval Outlying Field

night

November

Microwave Landing System

minimum safe altitude warning

Naval Air Development Center

Naval Air Engineering Center

Naval Air Engineering Station

Naval Auxiliary Landing Field

Navy Air Logistics Office

Naval Air Warfare Center Naval Air Weapons Station

Naval Air Logistics Control Office

Naval Auxiliary Air Station

Marine Corps Base

Joint Oil Analysis Program

Joint Operational Support Airlift Center

International Civil Aviation Organization NSTD nonstandard

IFR Instrument Flight Rules ntc notice

observation II S Instrument Landing System ohen

Inner Marker Oct October

IM

Immigration OL F Outlying Field

IMG

increase

opr

incr

indefinite ago

indef

operations

ints intensity OTS

out of service ovrn

invof in the vicinity of

IMC Instrument Meteorological Conditions PAEW personnel and equipment working

overrun

operate, operator, operational

pat

p-line

PMSV

POI

PPR

PRM

PTD

rea

RAMCC

rgt tfc

RON

rar

retd

rwv

Sat

SELE

Sen

SFΔ

cfc

SFRA

SOAP

SOF

SPR

SR

std

Sun

SVC

tfc

thld

Thu

tkf

tmprv

tran

Tue

twr

twv

UC

USA

USAF

USCG

USN

VFR

VIP

VMC

Wed

wx

EC. 23 SEP 2010 to 18 NOV 2010

RSRS

pattern

request

require

runwav

Saturday

surface

sunrise

sunset

Sunday

service

threshold

Thursday

take-off temporary

transient

Tuesday

tower

taxiwav

Under Construction

United States Army

United States Navy

formerly AUTOVON)

Visual Flight Rules

Wednesday

weather

Very Important Person

United States Air Force

United States Coast Guard

Defense Switching Network (telephone,

Visual Meteorological Conditions

traffic

standard

Sentember

restricted

right traffic

power line

Pilot-to-Metro Service

Pilot to Dispatcher

Remain Overnight

Petrol, Oils and Lubricants

Precision Runway Monitoring

Regional Air Movement Control Center

reduced same runway separation

Single Frequency Approach

Special Flight Rules Area

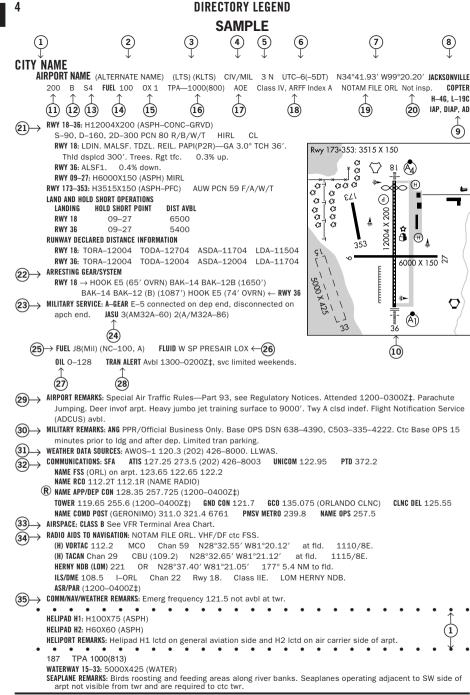
Supervisor of Flying

Seaplane Base

Strategic Expeditionary Landing Field

Spectrometric Oil Analysis Program

prior permission required



All bearings and radials are magnetic unless otherwise specified.
All mileages are nautical unless otherwise noted.
All times are Coordinated Universal Time (UTC) except as noted.
All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.
The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

(10) SVETC	H LEGEND
RUNWAYS/LANDING AREAS	RADIO AIDS TO NAVIGATION
	RADIO AIDS TO NAVIGATION
Hard Surfaced	VORTAC ♥ VOR
Metal Surface	VOR/DME NDB
Sod, Gravel, etc	TACAN NDB/DME
Light Plane, Ski Landing Area or Water Under Construction	MISCELLANEOUS AERONAUTICAL FEATURES
Closed	Airport Beacon
Helicopter Landings Area	Landing Tee
Displaced Threshold 0	Tetrahedron
Taxiway, Apron and Stopways	
MISSELLANIEGUS BASE AND CHITUDAL	APPROACH LIGHTING SYSTEMS
MISCELLANEOUS BASE AND CULTURAL FEATURES	A dot "•" portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g. (A) Negative symbology, e.g.,
Buildings	v indicates Pilot Controlled Lighting (PCL).
Power Lines	Runway Centerline Lighting
Fence	Approach Lighting System ALSF-2
Towers	Approach Lighting System ALSF-1
Tanks	Short Approach Lighting System SALS/SALSF
i anks	Simplified Short Approach Lighting System (SSALR) with RAIL
Oil Well	Medium Intensity Approach Lighting System (MALS and MALSF)/(SSALS and SSALF)
Smoke Stack	Medium Intensity Approach Lighting System (MALSR) and RAIL
Obstruction	Omnidirectional Approach Lighting System (ODALS)
Controlling Obstruction	Navy Parallel Row and Cross Bar
ဇာ တွင် တွေ Trees တိတ္ တိတ္	Air Force Overrun
Populated Places	Standard Threshold Clearance provided Pulsating Visual Approach Slope Indicator
Cuts and Fills Fill	Visual Approach Slope Indicator with a threshold crossing height to accomodate
Cliffs and Depressions	long bodied or jumbo aircraft Tri-color Visual Approach Slope Indicator
Ditch	(TRCV) (5) Approach Path Alignment Panel (APAP)
Hill	P Precision Approach Path Indicator (PAPI)

pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous

outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases. Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no

MC

NAF

NAS

PVT

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saying time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

NASA

N

Marine Corps

Naval Air Facility

Naval Air Station

National Air and Space Administration

Use by Transient Military Aircraft

US Civil Airport Wherein Permit Covers

Private Use Only (Closed to the Public)

Navv

as under the airport with which they are associated.

Alternate names, if any, will be shown in parentheses.

sample on the preceding pages. (1) CITY/AIRPORT NAME

(3) LOCATION IDENTIFIER

military tenant.

Α AFRC

ΑF

ANG

ARNG

CIV/MIL

(5) AIRPORT LOCATION

points, e.g., 4 NE. (6) TIME CONVERSION

AR

CG

DND

differentiate them from the letter "O". (4) OPERATING AGENCY

US Army

US Air Force

Air National Guard

US Army National Guard

Joint Use Civil/Military

Department of National Defense Canada

US Army Reserve

US Coast Guard

Air Force Reserve Command

United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Navaids, flight service stations and remote communication

private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected

LEGEND

GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)

Manual 5-4-5 Instrument Approach Procedure Charts for additional information, AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the

CODE

J4 (JP4)

J5 (JP5)

J8 (JP8)

18+100

MOGAS

Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS",

Data shown on fuel availability represents the most recent information the publisher has been able to acquire.

OX 3 High Pressure—Replacement Bottles

B+

S5: Major airframe repairs.

S7: Major powerplant repairs.

S8: Minor powerplant repairs.

FUFL

minus 50° C.

S6: Minor airframe and major powerplant repairs.

FS-11, FP** minus 46°C.

with FS-II*, FP** minus 47°C.

stability characteristics of JP-8.

(Jet Fuel Type Unknown)

as aircraft fuel.

Jet B, Wide-cut, turbine fuel with FS-II*, FP**

(JP-4 military specification) FP** minus

with FS-II*, FP** minus 47°C, with-fuel

additive package that improves thermo

Automobile gasoline which is to be used

(JP-5 military specification) Kerosene with

(JP-8 military specification) Jet A-1, Kerosene

(JP-8 military specification) Jet A-1, Kerosene

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric

center of all usable runway surfaces.

and airport name. (10) AIRPORT SKETCH

(11) ELEVATION

(13)

80

100

115

Α

A+

A1 +

10011

(14) FUEL CODE

(8) CHARTS Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is

sketches will be added incrementally.

(12) ROTATING LIGHT BEACON

SERVICING—CIVIL S1: Minor airframe repairs.

FUFI

40°C.

47° C.

*(Fuel System Icing Inhibitor) **(Freeze Point) NOTE:

minus 47°C.

FP** minus 50° C.

AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

S2: Minor airframe and minor powerplant repairs.

S3: Major airframe and minor powerplant repairs.

S4: Major airframe and major powerplant repairs.

Grade 80 gasoline (Red)

specification) (Purple)

Grade 100 gasoline (Green)

100LL gasoline (low lead) (Blue)

Grade 115 gasoline (115/145 military

Jet A, Kerosene, without FS-II*, FP** minus

Jet A, Kerosene, with FS-II*, FP** minus

Jet A-1, Kerosene, without FS-II*, FP**

Jet A-1, Kerosene with FS-II*, FP** minus

Jet B, Wide-cut, turbine fuel without FS-II*,

however, the grade/type and other octane rating will not be published.

Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information

indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP

(9) INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAMS

located. Helicopter Chart locations will be indicated as COPTER. IFR Gulf of Mexico West and IFR Gulf of Mexico Central will be depicted as GOMW and GOMC.

indicated as "00". When elevation is below sea level a minus "-" sign will precede the figure.

Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

(15) OXYGEN—CIVIL OX 1 High Pressure

OX 2 Low Pressure OX 4 Low Pressure—Replacement Bottles

(16) TRAFFIC PATTERN ALTITUDE

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA-See Remarks" and detailed information shall be shown in the

Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

US Customs Air and Sea Ports, Inspectors and Agents

Southeast Sector (Atlantic States-DC, WV, VA to FL)

Southwest East Sector (OK and eastern TX)

Pacific Sector (WA, OR, CA, HI and AK)

Required

Νo.

Vehicles

1

1 or 2

2 or 3

3

3

contact airport manager prior to flight.

(19) NOTAM SERVICE

Airport

Index

C

D

Ε

will always carry an Index A.

Southwest West Sector (Western TX, NM and AZ)

(18) CERTIFICATED AIRPORT (14 CFR PART 139)

Type of Air Carrier Operation

Aircraft Length

≥126'. <159'

≥126', <159'

≥159', <200'

≥159'. <200'

_____ >200'

≥200′

<126'

<90'

≥90′.

Scheduled Air Carrier Aircraft with 31 or more passenger seats Unscheduled Air Carrier Aircraft with 31 or more passengers seats

Scheduled Air Carrier Aircraft with 10 to 30 passenger seats

8

(17) AIRPORT OF ENTRY, LANDING RIGHTS, AND CUSTOMS USER FEE AIRPORTS U.S. CUSTOMS USER FEE AIRPORT-Private Aircraft operators are frequently required to pay the costs associated with

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one

hour advance notice of arrival is required.

customs processing.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV

> 14 CFR PART 139 CERTIFICATED AIRPORTS AIRPORT CLASSIFICATIONS

14 CFR-PART 139 CERTIFICATED AIRPORTS INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

Scheduled

Departures

≥1

≥5

<5

≥5

<5

<5

≥5

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.-indicates ARFF coverage may or may not be available, for information

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and

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> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H₂0-Water; DC-Dry Chemical.

Class I

Χ

Agent + Water for Foam 500#DC or HALON 1211

or 450#DC + 100 gal H2O

Index A + 1500 gal H₂O

Index A + 3000 gal H₂O

Index A + 4000 gal H₂O

Index A + 6000 gal H₂O

for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.) 407-975-1740

407-975-1840

407-975-1820

407-975-1800

Class II

Χ

Class III

Χ

Class IV

Х

Northeast Sector (New England and Atlantic States-ME to MD) 407-975-1780 407-975-1760 Central Sector (Interior of the US, including Gulf states—MS, AL, LA)

Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible

Mexico, Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to

ATC Procedures for detailed description of NOTAM's, Current NOTAMs are available from Flight Service Stations at 1-800-WX-BRIEF. Real time Military NOTAMs are available using the DoD Internet NOTAM Distribution System (DINS)

www.notams.ics.mil. (20) FAA INSPECTION

strips are shown by magnetic bearing.

(AFSC)—Aggregate friction seal coat

(ASPH)—Asphalt

(DIRT)-Dirt

(CONC)—Concrete

(GRVD)-Grooved

T=Triple and Q=Quadruple:

CURRENT

S

D

Т

ST

TRT

DT

TT

SBTT

None

DDT

TTT

TT

TDT

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

(21) RUNWAY DATA Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the

longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown. e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

RUNWAY DESIGNATION

runways can be designated L (left)/R (right)/C (center). Runways may be designated as Ultralight or assault strips. Assault

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel

RIINWAY DIMENSIONS Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but

excluding those areas designed as overruns.

RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part

asphalt-concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is

indicated in parentheses after runway length as follows:

(GRVL)-Gravel, or cinders

(MATS)—Pierced steel planking.

landing mats, membranes

(PEM)—Part concrete, part asphalt

Single wheel type landing gear (DC3), (C47), (F15), etc.

Two single wheels in tandem type landing gear (C130).

Two dual wheels in tandem type landing gear (B757,

Two dual wheels in tandem/dual wheel body gear type

Two dual wheels in tandem/two dual wheels in double tandem body gear type landing gear (B747, E4).

Complex dual wheel and quadruple wheel combination

Two dual wheels in tandem/two dual wheels in tandem body

Three dual wheels in tandem type landing gear (B777), etc.

Dual wheel gear two struts per side main gear type landing

Two triple wheels in tandem type landing gear (C17), etc.

Two dual wheels in tandem type landing gear (B707), etc.

Dual wheel type landing gear (P3, C9).

gear type landing gear (A340-600).

Dual wheel type landing gear (BE1900), (B737), (A319), etc.

(TURF)-Turf (TRTD)-Treated (WC)-Wire combed

(PSP)-Pierced steel plank

(RFSC)-Rubberized friction seal coat

RUNWAY WEIGHT BEARING CAPACITY

NEW DESCRIPTION

landing gear (KC10).

gear (B52).

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landing gear (C5).

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at

(PFC)-Porous friction courses

an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport

pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible

management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual,

operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport

NEW

S

D

2.5

2T

2D

2D

2D/D1

2D/2D1

2D/2D2

3D

D2

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

PSI-Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available for all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be

RUNWAY LIGHTING Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not

spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the

(4) The maximum tire pressure authorized for the pavement:

U — By experience of aircraft using the pavement

W - High, no limit

X — Medium, limited to 217 psi

Z - Very low, limited to 73 psi

SALS—Short Approach Lighting System.

Flashing Lights.

SALSF—Short Approach Lighting System with Sequenced

SSALS—Simplified Short Approach Lighting System.

Runway Alignment Indicator Lights.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with

Y - Low, limited to 145 psi

(5) Pavement evaluation method:

T — Technical evaluation

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual,

(1) The PCN NUMBER—The reported PCN indicates that an

aircraft with an ACN equal or less than the reported PCN

shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

can operate on the pavement subject to any limitation on the tire pressure.

(2) The type of pavement: R - Rigid F - Flexible

(3) The pavement subgrade category:

A - High

B — Medium

C - Low

D — Ultra-low

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published

PCN or aircraft tire pressure exceeds the published limits.

included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or

runway or runway end they serve. NSTD-Light system fails to meet FAA standards.

LIRL-Low Intensity Runway Lights. MIRL-Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights. RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL-Centerline Lights.

TDZL-Touchdown Zone Lights.

ODALS-Omni Directional Approach Lighting System.

AF OVRN-Air Force Overrun 1000' Standard

Approach Lighting System.

which they are tenants.

LDIN-Lead-In Lighting System. MALS-Medium Intensity Approach Lighting System.

MALSF-Medium Intensity Approach Lighting System with

Sequenced Flashing Lights.

MALSR-Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned

more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport

ALSAF—High Intensity Approach Lighting System with

ALSF1—High Intensity Approach Lighting System with Se-

ALSF2-High Intensity Approach Lighting System with Se-

quenced Flashing Lights, Category I, Configuration. quenced Flashing Lights, Category II, Configuration.

Sequenced Flashing Lights.

SF—Sequenced Flashing Lights.

OLS-Optical Landing System. WAVE-OFF.

entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on

4-identical light units placed on left side of

4-identical light units placed on right side of

PVASI on right side of runway

TRCV on right side of runway

2-box SAVASI on right side of runway

DIRECTORY LEGEND

P4R

PSIR

S2R

TRIR

runwav

APAP—A system of panels, which may or may not be lighted, used for alignment of approach path.

PVASI—Pulsating/steady burning visual approach slope indicator, normally a single light unit projecting two colors.

APAP on left side of runway PNIR

P2L 2-identical light units placed on left side of

SAVASI—Simplified Abbreviated Visual Approach Slope Indicator

2-box SAVASI on left side of runway

PVASI on left side of runway

TRCV on left side of runway

P2R

S2L

TRII

Key Mike 7 times within 5 seconds

and takeoff for specified runway end.

PAPI—Precision Approach Path Indicator

2-identical light units placed on right side of

P4I

APAP on right side of runway

PNIL

VASI-Visual Approach Slope Indicator

V6I 6-box VASI on left side of runway V2L 2-box VASI on left side of runway

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

V2R 2-box VASI on right side of runway V6R 6-box VASI on right side of runway

V4L 4-box VASI on left side of runway V12 12-box VASI on both sides of runway

V4R 4-box VASI on right side of runway V16 16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'.

PILOT CONTROL OF AIRPORT LIGHTING

Highest intensity available

Medium or lower intensity

5 times within 5 seconds (Lower REIL or REIL-Off)

3 times within 5 seconds Lowest intensity available

(Lower REIL or REIL-Off)

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07-25, MALSR Rwy 07, and

VASI Rwy 07-122.8. Where the airport is not served by an instrument approach procedure and/or has an independent type system of different

specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport

RUNWAY SLOPE

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach

procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up

or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down. RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"-Right traffic indicates right turns should be made on landing LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet. Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The

Aeronautical Information Manual contains specific details on hold-short operations and markings.

RUNWAY DECLARED DISTANCE INFORMATION TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane

take-off.

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided.

LDA-Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

(22) ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a-gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A-Gear which has a bi-direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance

notice may be required for rigging A-Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific

engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations. Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

DESCRIPTION BAK-9 Rotary friction brake. Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary BAK-12A BAK-12B Extended BAK-12 with 1200 foot run, 11/4 inch Cable and 50,000 pounds weight setting. Rotary

friction brake. E28 Rotary Hydraulic (Water Brake).

The following device is used in conjunction with some aircraft arresting systems: A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

DIRECTORY LEGEND

for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to five seconds to fully raise the cable.)

A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to one and one-half seconds to fully raise the cable.)

Rotary Hydraulic (Water Brake) Mobile.

UNI-DIRECTIONAL CABLE

TYPE DESCRIPTION

MB60 Textile brake—an emergency one-time use, modular braking system employing the tearing of

specially woven textile straps to absorb the kinetic energy.

E5/E5-1/E5-3 Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100

HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and

length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a

stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet

overrun that is not capable of withstanding the aircraft weight. These ratings are published under

Military Service.

FOREIGN CABLE

TYPE DESCRIPTION US EQUIVALENT Rotary Hydraulic)

44B-3H (Water Brake)

CHAG Chain

F-5 UNI-DIRECTIONAL BARRIER

threshold can cause damage to the barrier and substantial damage to the aircraft.

TYPE Web barrier between stanchions attached to a chain energy absorber. MA-1A

Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction,

AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire DC: 28v, 1500 amp, 72 kw (with TR pack)

DC: 28v, 500 amp, 14 kw

DC: 28v, 500 amp, 15 kw

DC: 28v, 1500 amp, 45 kw, split bus

DC: 28v, 1500 amp, 45 kw, split bus

AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire

AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway

high energy absorbing materials which will crush under the weight of an aircraft.

Engineered Material Arresting System, located beyond the departure end of the runway, consisting of

BAK-15

chain). Designed for wing engagement. NOTE: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier

DESCRIPTION

OTHER TYPE EMAS

12

M21

BAK-14

BI-DIRECTIONAL CABLE (B)

(23) MILITARY SERVICE

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

24) JET AIRCRAFT STARTING UNITS (JASU) The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten

or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35-1-7.) **ELECTRICAL STARTING UNITS:** A/M32A-86 MC-1A MD-3 MD-3A MD-3M

13 DIRECTORY LEGEND MD-4 AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5 kva. 0.8 pf. 520 amp. 2 wire AIR STARTING UNITS AM32-95 150 + -5 lb/min (2055 + -68 cfm) at 51 + -2 psia AM32A-95 150 + -5 lb/min @ 49 + -2 psia (35 + -2 psig) LASS 150 +/- 5 lb/min @ 49 +/- 2 psia 82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press MA-1A MC-1 15 cfm, 3500 psia MC-1A 15 cfm, 3500 psia MC-2A 15 cfm, 200 psia MC-11 8,000 cu in cap, 4000 psig, 15 cfm COMBINED AIR AND ELECTRICAL STARTING UNITS: AC: 115/200v, 400 cycle, 3 phase, 30 kw gen DC: 28v, 700 amp AIR: 60 lb/min @ 40 psig @ sea level AM32A-60* AIR: 120 + -4 lb/min (1644 + -55 cfm) at 49 + -2 psiaAC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva DC: 28v, 500 amp, 15 kw AM32A-60A AIR: 150 + -5 lb/min (2055 + -68 cfm at 51 + - psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw AM32A-60B* AIR: 130 lb/min, 50 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire

DC: 28v. 200 amp. 5.6 kw

SYSTEM

NCPP-105/RCPT

JASU (ARMY) 59B2-1B

OTHER JASU

CF12

CF13 CF14

CF15

CF16

CFA1

C - 26

E3

A4

MA-1

MA-2CARTRIDGE: MXU-4A

C-26-B, C-26-C

COMBINED AIR AND ELECTRICAL STARTING UNITS:

COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)

ELECTRICAL STARTING UNITS (DND):

ELECTRICAL STARTING UNITS (OTHER)

AIR STARTING UNITS (DND):

AIR STARTING UNITS (OTHER):

30 kva.

28v, 7.5 kw, 280 amp.

ASA 45.5 psig, 116.4 lb/min

AIR 112.5 lb/min, 47 psig

150 Air HP, 115 lb/min 50 psia

250 Air HP, 150 lb/min 75 psia

DC 28v/10kw

USAF

AC 115/200v, 140 kva, 400 Hz, 3 phase AC 115/200v, 60 kva, 400 Hz, 3 phase

electrical power available. USN JASU **ELECTRICAL STARTING UNITS:** DC: 500 amp constant, 750 amp intermittent, 28v; AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.

*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of DC: 750 amp constant, 1000 amp intermittent, 28v;

AC: 90 kva, 115/200v, 3 phase, 400 Hz.

NC-8A/A1 NC-10A/A1/B/C AIR STARTING UNITS:

GTC-85/GTE-85 120 lbs/min @ 45 psi. MSU-200NAV/A/U47A-5 204 lbs/min @ 56 psia. WELLS AIR START 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.

AC/DC 115/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp

DC 22-35v, 500 amp continuous 1100 amp intermittent DC 22-35v, 500 amp continuous 1100 amp intermittent soft start

AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp

28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire

40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)

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28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire

180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC,

Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is

Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at www.desc.dla.mil/Static/ProductsAndServices.asp; click on the Commercial Airports

(25) FUEL—MILITARY Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is

followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown.

available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD

De-Ice Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243). UXACEN. LPOX Low pressure oxygen servicing.

(26) SUPPORTING FLUIDS AND SYSTEMS—MILITARY

See legend item 14 for fuel code and description.

CODE ADI Anti-Detonation Injection Fluid-Reciprocating Engine Aircraft.

W WΔI

Water Thrust Augmentation-Jet Aircraft. Water-Alcohol Injection Type, Thrust Augmentation-Jet Aircraft.

SP Single Point Refueling.

Air Compressors rated 3,000 PSI or more. PRESAIR

Liquid oxygen servicing. LOX **OXRB** Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be replenished only by replacement of cylinders.) ΩX

High pressure oxygen servicing.

Indicates oxygen servicing when type of servicing is unknown.

Low and high pressure oxygen servicing.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available:

LHOXRB Low and high pressure oxygen servicing and replacement bottles:

Low pressure oxygen replacement bottles only, etc. **LPOXRB**

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with

medical oxygen.

LPNIT - Low pressure nitrogen servicing. HPNIT — High pressure nitrogen servicing.

LHNIT - Low and high pressure nitrogen servicing.

(27) OIL—MILITARY



HPOX

LHOX

NITROGEN:

0 - 155

CODE GRADE, TYPE

0 - 113

1065, Reciprocating Engine Oil (MIL-L-6082)

- 1100, Reciprocating Engine Oil (MIL-L-6082) 0-117
- 0-117+ 1100, 0-117 plus cyclohexanone (MIL-L-6082)
- 0 1231065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)

 - 1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II)
- 0 128
- 1005, Jet Engine Oil (MIL-L-6081) 0 - 132
- 0 1331010, Jet Engine Oil (MIL-L-6081)
- 0 147None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic
- 0 148None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil 0 - 149None, Aircraft Turbine Engine Synthetic, 7.5c St

None, MIL-L-6086C, Aircraft, Medium Grade

- 0 156None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines JOAP/SOAP Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request.
 - (JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service supported program.)
- (28) TRANSIENT ALERT (TRAN ALERT)—MILITARY
- Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking
- assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends
- regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military
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alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been

watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient

(29) AIRPORT REMARKS

services (e.g., repairs, fuel, transportation).

publication for additional Information.

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean

accomplished.

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft, Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication. Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for

planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

(30) MILITARY REMARKS Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military

applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent

Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be

remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military. Type of restrictions: CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure

applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area. OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircrews and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received

from the airfield manager. AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from

the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of

PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11-204, AR 95-27, OPNAVINST 3710.7. Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on aboard are designated Code 6 or higher as explained in AFJMAN

11-213, AR 95-11, OPNAVINST 3722-8J. Official Business Only or PPR do not preclude the use of the airport as an

(31) WEATHER DATA SOURCES

alternate for IFR flights.

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS—Automated Weather Observing System AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2—reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data. See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

LAWRS-Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision,

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers. SAWRS-identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current

is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order

The FSS telephone nationwide is toll free 1-800-WX-BRIEF (1-800-992-7433). When the FSS is located on the field it will be indicated as "on arpt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available. FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation.

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by

Remote Communications Outlet (RCO)-An unmanned air/ground communications facility that is remotely controlled and

Civil Communications Frequencies-Civil communications frequencies used in the FSS air/ground system are operated on

HIWAS-See RADIO AIDS TO NAVIGATION

temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone. TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP-indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall

(32) COMMUNICATIONS Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign

be shown as CTAF/UNICOM 122.8.

calling the telephone numbers listed.

weather information.

16

be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.

with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows: Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS)

and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will

(See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.

c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed. d. 122.1 is the primary receive-only frequency at VOR's.

b. 122.2 is assigned as a common enroute frequency.

e. Some FSS's are assigned 50 kHz frequencies in the 122-126 MHz band (eg. 122.45). Pilots using the FSS A/G

system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remoted

facility through which they wish to communicate. Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR

122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

provides UHF or VHF communications capability to extend the service range of an FSS.

facilities. Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

TERMINAL SERVICES SFA—Single Frequency Approach.

CTAF-A program designed to get all vehicles and aircraft at airports without an operating control tower on a common

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

landline & data link communications and voice message within range of existing transmitters.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information. PTD-Pilot to Dispatcher.

APP CON—Approach Control. The symbol (\mathbf{R}) indicates radar approach control.

TOWER-Control tower. GCA-Ground Control Approach System.

GND CON-Ground Control.

GCO-Ground Communication Outlet-An unstaffed, remotely controlled, ground/ground communications facility. Pilots at

VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the

uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a

DEP CON—Departure Control. The symbol (R) indicates radar departure control. CLNC DEL-Clearance Delivery.

PRE TAXLCI NC-Pre taxi clearance

VFR ADVSY SVC-VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV-Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or hours of operation as "Wx obsn svc 1900-0000Z‡" or "other times" may be used when no specific time is given. PMSV

facilities manned by forecasters are considered "Full Service". PMSV facilities manned by weather observers are listed as

"Limited Service".

CON

OPS—Operations followed by the operator call sign in parenthesis. RANGE

FLT FLW-Flight Following MEDIVAC

NOTE: Communication frequencies followed by the letter "X" indicate frequency available on request.

(33) AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times.

Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown. CLASS B-Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface

area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C

and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled

airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc APP CON other times CLASS E:

AIRSPACE: CLASS D svc "times" other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace

beginning at either 700' or 1200' AGL. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc APP CON other times CLASS G, with CLASS E 700' (or 1200') AGL & abv:

AIRSPACE: CLASS D svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv:

AIRSPACE: CLASS E svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv.

NOTE: AIRSPACE SVC "TIMES" INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS. Surface area arrival extensions for instrument approach

procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and

are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or

Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When

a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E

NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE. DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.

Class E 700' AGL (shown as magenta vignette on sectional charts) and 1200' AGL (blue vignette) areas are designated

when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless

otherwise specified, these 700'/1200' AGL Class E airspace areas remain in effect continuously, regardless of airport

operating hours or surface area status. These transition areas should not be confused with surface areas or arrival

extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)

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(34) RADIO AIDS TO NAVIGATION

The Airport/Facility Directory lists, by facility name, all Radio Aids to Navigation that appear on National Aeronautical

Navigation Services Visual or IFR Aeronautical Charts and those upon which the FAA has approved an Instrument Approach Procedure, with exception of selected TACANs. Military TACAN information will be published for Military facilities contained in this publication. All VOR, VORTAC, TACAN, ILS and MLS equipment in the National Airspace System has an automatic monitoring and shutdown feature in the event of malfunction. Unmonitored, as used in this publication, for any navigational aid, means that monitoring personnel cannot observe the malfunction or shutdown signal. The NAVAID NOTAM file identifier will be shown as "NOTAM FILE IAD" and will be listed on the Radio Aids to Navigation line. When two or more NAVAIDS are

listed and the NOTAM file identifier is different from that shown on the Radio Aids to Navigation line, it will be shown with the NAVAID listing. NOTAM file identifiers for ILSs and its components (e.g., NDB (LOM) are the same as the associated airports and are not repeated. Automated Surface Observing System (ASOS), Automated Weather Observing System (AWOS), and Hazardous Inflight Weather Advisory Service (HIWAS) will be shown when this service is broadcast over selected NAVAIDs.

NAVAID information is tabulated as indicated in the following sample:

Geographical Position

Site Elevation

ABE Chan 122(Y) N40°43.60′ W75°27.30′ 180°4.1 NM to fld. 1110/8E. AWOS. HIWAS.

SSV Class

Class Frequency Identifier

Terminal Procedures. Only part-time hours of operation will be shown.

TACAN/DME Channel

airport

VORTAC and VOR/DME).

facility to center of

Bearing and distance VOR unusable 020°-060° byd 26 NM blo 3,500′

Magnetic Variation

Automated Hazardous Inflight Weather Observing System

Weather Advisory Service

Restriction within the normal altitude/range of the navigational aid (See primary alphabetical listing for restrictions on

Note: Those DME channel numbers with a (Y) suffix require TACAN to be placed in the "Y" mode to receive distance

Distance

information HIWAS—Hazardous Inflight Weather Advisory Service is a continuous broadcast of inflight weather advisories including summarized SIGMETs, convective SIGMETs, AIRMETs and urgent PIREPs. HIWAS is presently broadcast over selected VOR's

ASR/PAR—Indicates that Surveillance (ASR) or Precision (PAR) radar instrument approach minimums are published in the U.S. RADIO CLASS DESIGNATIONS

VOR/DME/TACAN Standard Service Volume (SSV) Classifications Altitudes

		(NM)
(T) Terminal	1000' to 12,000'	25
(L) Low Altitude	1000' to 18,000'	40
(H) High Altitude	1000' to 14,500'	40
	14,500' to 18,000'	100
	18,000' to 45,000'	130
	45,000' to 60,000'	100
NOTE: Additionally, (H	I) facilities provide (L) and (T) service volume and (L) facilities	es provide (T) service. Altitude

des are with respect to the station's site elevation. Coverage is not available in a cone of airspace directly above the facility. CONTINUED ON NEXT PAGE

19

CONTINUED FROM PRECEDING PAGE

The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations

vary between radinates	at different fooddorfo.
AB	Automatic Weather Broadcast.
DF	
DME	UHF standard (TACAN compatible) distance measuring equipment.
DME(Y)	
GS	Glide slope.
Н	Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM a all altitudes).
HH	Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes)
H-SAB	Non-directional radio beacons providing automatic transcribed weather service.
ILS	Instrument Landing System (voice, where available, on localizer channel).
IM	Inner marker.
ISMLS	Interim Standard Microwave Landing System.
LDA	Localizer Directional Aid.
LMM	Compass locator station when installed at middle marker site (15 NM at all altitudes).
LOM	Compass locator station when installed at outer marker site (15 NM at all altitudes).
MH	Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
MLS	Microwave Landing System.
MM	Middle marker.
OM	Outer marker.
S	Simultaneous range homing signal and/or voice.
SABH	Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
SDF	Simplified Direction Facility.
TACAN	UHF navigational facility-omnidirectional course and distance information.
VOR	VHF navigational facility-omnidirectional course only.
VOR/DME	Collocated VOR navigational facility and UHF standard distance measuring equipment.
VORTAC	Collocated VOR and TACAN navigational facilities.
W	Without voice on radio facility frequency.
_	

VHF station location marker at a LF radio facility.

NI S

CHANNEL

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502

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536

538

540

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544

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562

564

566

2X

21

11X

17X

17Y

18X

189

19

VHE

FREQUENCY

108.10

108.30

108.50

108.70

108.90

109.10

109.30

109.50

109.70

109.90

110.10

110.30

110 50

110.70

110.90

111.10

111.30

111.50

111.70

111.90

108.05

108.15

108.75

108.85

108 95

109.05

109 15

109 25

109.35

134.5

134 55

135.4

108.00

108.05

108 10

108 15

CHANNEL

18X

20X

22X

24X

26X

28X

30X

32X

34X

36X

38X

4∩x

42X

44X

46X

48X

50X

52X

54X

56X

17Y

18Y

24Y

25Y

26Y

27Y

28Y

291

30Y

540

500

542

ILS FACILITY PEFORMANCE CLASSIFICATION CODES

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A - 4 NM prior to runway threshold, B - 3500 ft prior to runway threshold, C - glide angle dependent but generally 750-1000 ft prior to threshold, T - runway threshold, D - 3000 ft after runway threshold, and E - 2000 ft prior to stop end of runway.

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category

and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

ILS information is tabulated as indicated in the following sample: II S/DMF I-ORL Rwy 18. Class IIE. 108 5 Chan 22 LOM HERNY NDR

CHANNEL

568

570

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582

584

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604

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608

610

ILS Facility Performance

Classification Code FREQUENCY PAIRING PLAN AND MLS CHANNELING

TACAN NI S VHE TACAN FREQUENCY

109 45

109.55

109.65

109.75

109.85

109.95

110.05

110.15

110.25

110.35

110.45

110.55

110.65

110.75

110.85

110.95

111.05

111.15

111.25

111.35

111.45

111.55

113.45

113 55

113 65

113.75

113.85

113 95

114.05

2 IM

CHANNEL

636

638

640

642

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646

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658

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664

666

668

670

672

674

676

678

690

692

694

696

698

25X

25Y

26X

261

27X

27Y

28X

28Y

29X

29Y

30X

CHANNEL

31 V

32Y

33Y

34Y

35Y

36Y

37Y

38Y

39Y

40Y

41Y

42Y

43Y

44Y

45Y

46Y

47Y

48Y

49Y

50Y

51Y

52Y

81Y

82Y

83Y

84Y

85Y

86Y

87Y

544

502

546

550

552

506

VHF

FREQUENCY

114 15

114.25

114.35

114.45

114.55

114.65

114.75

114.85

114.95

115.05

115.15

115.25

115 35

115.45

115.55

115.65

115.75

115.85

115.95

116.05

116.15

116.25

116.35

116.45

116.55

116 65

116 75

116.85

116.95

117 05

117.15

117.25

VHF

FREQUENCY

108.80

108.85

108.90

108 95

109 00

109.05

109.10

109.15

109.20

109 25

109.30

TACAN

CHANNEL

88Y

89Y

90Y

91Y

92Y

93Y

94Y

95Y

96Y

97Y

98Y

aay

1009

101Y

102Y

103Y

104Y

105Y

106Y

107Y

108Y

109Y

110Y

111Y

112Y

113Y

114Y

115Y

116Y

117Y

118Y

119Y

2 IM

CHANNEL

556

508

558

560

510

562

564

512

544	108.25	19Y	612	111.65	53Y	680	
546	108.35	20Y	614	111.75	54Y	682	
548	108.45	21Y	616	111.85	55Y	684	
550	108.55	22Y	618	111.95	56Y	686	
552	108.65	23Y	620	113.35	80Y	688	

622

624

626

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634

FREQUENCY PAIRING PLAN AND MLS CHANNELING

108.25

108 30

108.35

108.55

108 60

108 65

108 70

TACAN VHF 2 IM TACAN VHF MLS TACAN CHANNEL FREGUENCY CHANNEL CHANNEL FREGUENCY CHANNEL CHANNEL 19Y

20X

20Y

22Y

23X

23Y

24X

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

11Y 135 45 21 X 108 40 12X 135.5 21Y 108.45 548 12Y 135.55 22X 108.50 504

	100.10	0.2		100110	000
9X	108.20	-	24Y	108.75	554

FREQUENCY

133.60

133.65

133 70

133.75

133.80

133.85

133.90

133.95

134 00

134 05

134 10

134.15

134.20

134.25

112.30

112.35

112 40

112 45

112 50

112 55

112.60

112.65

112.70

112.75

112.80

112.85

112.90

112.95

113.00

113.05

113 10

113.15

113.20

113.25

113.30

113.35

113.40

620

644

-

646

648

TACAN

CHANNEL

63X

63Y

64X

64Y

65X

65Y

66X

66Y

67X

67Y

68X

68Y

69X

69Y

70X

70Y

71 X

71Y

72X

72Y

73X

73Y

74X

74Y

75X

75Y

76X

76Y

77X

77Y

78X

78Y

79X

79Y

80X

80Y

81X

TACAN

CHANNEL

30Y

31X

31Y

32X

32Y

33X

34X

34Y

35X

35Y

36X

36Y

37X

37Y

38X

38Y

39X

397

40X

40Y

41X

41Y

42X

42Y

43X

43Y

44X

44Y

45X

45Y

46X

46Y

47X

47Y

48X

48Y

59Y

60X

60Y

61 X 61Y

62X

VHF

FREQUENCY

109.35

109.40

109 45

109.50

109.55

109.60

109.65

109.70

109 75

109.80

109.85

109.90

109.95

110.00

110.05

110.10

110.15

110.20

110 25

110 30

110.35

110.40

110.45

110.50

110.55

110.60

110.65

110.70

110.75

110.80

110.85

110.90

110.95

111.00

111.05

111.10

111.15

112 25

133 30

133 35

133 40

133 45

133.50

MIS

CHANNEL

566

568

514

570

572

516

574

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576

518

578

580

520

582

584

522

586

588

524

590

592

526

594

596

528

598

600

530

602

CHANNEL

95Y

96X

96Y

97X

97Y

98X

98Y

99X

99Y

100X

100Y

101X

101Y

102X

102Y

103X

103Y

104X

104Y

105X

105Y

106X

106Y

107X

107Y

108X

108Y

109X

109Y

110X

110Y

111X

111Y

112X

112Y

113X

113Y

124Y

125X

125Y

126X

126Y

VHF

FREQUENCY

114.85

114.90

114 95

115.00

115.05

115.10

115.15

115.20

115.25

115.30

115.35

115.40

115.45

115.50

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115.60

115.65

115.70

115 75

115.80

115.85

115.90

115.95

116.00

116.05

116.10

116.15

116.20

116.25

116.30

116.35

116.40

116.45

116.50

116.55

116.60

116.65

117.75

117.80

117 85

117.90

117.95

MLS

CHANNEL

650

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664

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672

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680

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684

686

MIS

CHANNEL

49X	111.20	-	81Y	113.45	622	114X	116.70	-
49Y	111.25	604	82X	113.50	-	114Y	116.75	688
50X	111.30	532	82Y	113.55	624	115X	116.80	-
50Y	111.35	606	83X	113.60	-	115Y	116.85	690
51X	111.40	-	83Y	113.65	626	116X	116.90	-
51Y	111.45	608	84X	113.70	-	116Y	116.95	692
52X	111.50	534	84Y	113.75	628	117X	117.00	-
52Y	111.55	610	85X	113.80	-	117Y	117.05	694
53X	111.60	-	85Y	113.85	630	118X	117.10	-
53Y	111.65	612	86X	113.90	-	118Y	117.15	696
54X	111.70	536	86Y	113.95	632	119X	117.20	-
54Y	111.75	614	87X	114.00	-	119Y	117.25	698
55X	111.80	-	87Y	114.05	634	120X	117.30	-
55Y	111.85	616	88X	114.10	-	120Y	117.35	-
56X	111.90	538	88Y	114.15	636	121X	117.40	-
56Y	111.95	618	89X	114.20	-	121Y	117.45	-
57X	112.00	-	89Y	114.25	638	122X	117.50	-
57Y	112.05	-	90X	114.30	-	122Y	117.55	-
58X	112.10	-	90Y	114.35	640	123X	117.60	-
58Y	112.15	-	91X	114.40	-	123Y	117.65	-
59X	112.20	-	91Y	114.45	642	124X	117.70	-

62Y 133.55 95X 114.80 35 COMM/NAV/WEATHER REMARKS:

114 50

114.55

114 60

114.65

114 70

114.75

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

EC. 23 SEP 2010 to 18 NOV 2010

92X

92Y

93X

93Y

94X

94Y

211 OHIO

ADA (ØD7) 1 NW UTC-5(-4DT) N40°47.44′ W83°49.75′ 949 NOTAM FILE DAY

RWY 09-27: 1955X110 (TURF) RWY NO. Tree RWY 27: Tree. AIRPORT REMARKS: Unattended. Deer on and invof arpt. Ultralight activity on and invof arpt.

NDB (MHW/LOM) 407

AIRBORNE AIRPARK

COMMUNICATIONS: CTAF/UNICOM 122.8

AIRBO N39°29.58′ W83°44.29′ NOTAM FILE II N

IL and Sun 2300 til Mon 1200Z±.

217° 4.6 NM to Airborne Airpark, Unmonitored, Sat-Sun 2300-1100Z‡

(See WILMINGTON)

AKRON

AKRON-CANTON RGNL 10 SE

(CAK) UTC-5(-4DT)

FUEL 100LL, JET A OX 1, 2 LRA B **S4**

RWY 01-19: H7601X150 (ASPH-GRVD) S-120, D-160, 2S-175, 2D-250

RWY 19: MALSR, PAPI(P4L)—GA 3.0° TCH 53', Thid dspicd 599'.

RWY 05-23: H7597X150 (ASPH-GRVD) S-120, D-160, 2S-175,

0.5% up NE 20-230 HIRL

RUNWAY DECLARED DISTANCE INFORMATION RWY 01: TORA-7600 TODA-7600

LAND AND HOLD SHORT OPERATIONS

RWY 19: TORA-7600

LANDING

RWY 05

RWY 19

RWY 05: REIL, VASI(V4L)-GA 3.0° TCH 40'.

01-19

05 - 23

HOLD SHORT POINT

TODA-7600

One hr PPR for unscheduled air carrier ops with more than 9 passenger seats call airport manager 216-499-4059. ARFF svc

AIRPORT REMARKS: Attended continuously. Rwy 05-23 southwest 1000' CLOSED indef. Air carrier acft taxiing on jet tech ramp and north hangar areas not visible from twr. Deer and birds on and invof arpt.

4300

3100

ASDA-7000

ASDA-7600

RWY 23: MALSR. VASI(V4L)-GA 3.0° TCH 48'. Trees.

DIST AVBL

LDA-7000

LDA-7000

HIRL

N40°54.97′ W81°26.53′

Class I, ARFF Index B

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228° 15.9 NM to fld. 1194/4W.

NOTAM FILE CAK

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DETROIT

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H-10G, L-29B

not avbl 0500-1100Z‡ except one hr PPR; call arpt manager. Rwy 01 runway visual range touchdown avbl. Flight Notification Service (ADCUS) avbl. WEATHER DATA SOURCES: ASOS (330) 966-9545.

COMMUNICATIONS: ATIS 121.05 UNICOM 122.95 RCO 122.1R 114.4T (CLEVELAND RADIO)

R APP/DEP CON 125.5 (007°-186°) 118.6 (187°-006°) 126.4 (1100-0500Z‡)

R CLEVELAND CENTER APP/DEP CON 134.9 (0500-1100Z‡)

GND CON 121.7 **CLNC DEL** 132.05 TOWER 118.3 AIRSPACE: CLASS C svc 1100-0500Z‡ ctc APP CON other times CLASS D.

RADIO AIDS TO NAVIGATION: NOTAM FILE CAK.

(L) VOR/DME 114.4 ACO Chan 91 N41°06.47′ W81°12.09′ I-CAK IIS 109 5 Rwy 01.

Class IA.

Rwy 23. ILS 108.3 I-GGZ Class IF ILS 109.5 I-RGO Rwy 19.

ASR

Glide slope unusable for coupled apchs below 1574'. Class IE.

OHIO

AKRON FULTON INTL (AKR) 0.S UTC-5(-4DT) N41°02.25′ W81°28.02′ 1067 B FUEL 100LL, JET A AOE NOTAM FILE AKR

RWY 07-25: H6337X150 (ASPH) S-75, D-100, 2S-127, 2D-160 HIRI

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H-10G, L-30G

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RWY 07: REIL. PAPI(P4L)—GA 3.6° TCH 45'. Thid dspicd 760'.

RWY 25: REIL. Thid dsplcd 262'. Trees. RWY 01-19: H2336X100 (ASPH) S-30 MIRL

RWY 01: Brush. RWY 19: Thid dspicd 190'. AIRPORT REMARKS: Attended 1100-0300Z‡. Deer on and invof rwys

and twys. PPR for svc after hrs call arpt manager 330-864-2366.

Rwy 07 REIL OTS indef. ACTIVATE MIRL Rwy 01-19, HIRL Rwy

Service (ADCUS) available.

07-25, and REIL Rwys 07 and 25-CTAF. Flight Notification

WEATHER DATA SOURCES: ASOS 126.825 (330) 724-4237. COMMUNICATIONS: CTAF/UNICOM 123.075 RCO 122.1R 114.4T (CLEVELAND RADIO)

R AKRON-CANTON APP/DEP CON 118.6 (1100-0500Z‡) CINC DEL 121 6

(R) CLEVELAND CENTER APP/DEP CON 120.775 (0500-1100Z±.) AIRSPACE: CLASS E svc continuous.

RADIO AIDS TO NAVIGATION: NOTAM FILE CAK. (L) VOR/DME 114.4 ACO Chan 91 N41°06.47'

W81°12.09' 255° 12.8 NM to fld. 1194/4W.

NDB (MHW/LOM) 362 AK N41°04.19' W81°23.25' 249° 4.1 NM to fld. NOTAM FILE CLE.

ILS/DME 110.9 I-AKR Chan 046 Rwy 25 LOM AKRON NDB, LOC only, DME unusable byd 25° left of

course. Unmonitored when twr clsd.

MAYFIELD (1D4) 5 SE UTC-5(-4DT) N40°59.55′ W81°25.91′

1100 TPA-2800(1700) NOTAM FILE CLE

RWY 09-27: 2315X110 (TURF)

RWY 09: Thid dspicd 180'. Trees. RWY 27: Thid dsplcd 590'. Trees. Rgt tfc.

AIRPORT REMARKS: Attended irregularly. Rwy 09-27 marked with tires. Dsplcd thld marked with yellow tires.

COMMUNICATIONS: CTAF 122.9

OLD PORTAGE HELIPORT (4P2) 4 NW UTC-5(-4DT) N41°08.27′ W81°32.95′

760 NOTAM FILE CLE

HELIPAD H1: 100X100 (TURF)

HELIPORT REMARKS: Unattended. Helipad H1 +82' to +46' tree along with +17' building and +30' p-line near pad.

SCHMELTZER HELIPORT (6D5) 7 NW UTC-5(-4DT) N41°08.84′ W81°39.62′

992 NOTAM FILE CLE

HELIPAD H1: 50X50 (TURF) HELIPORT REMARKS: Attended irregularly, Helipad H1 +83' trees 75' east and south of pad. COMMUNICATIONS: CTAF 122.9

212

UHIU

(HZY) 8 SE

214

ASHTABULA CO

FUEL 100LL, JET A1+ NOTAM FILE HZY R S3 RWY 08-26: H5197X100 (ASPH) S-40, D-53 MIRL 0.3% up E RWY 08: REIL. PAPI(P4L)-GA3.0° TCH 27'. Trees. RWY 26: REIL, PAPI(P4L)-GA 3.0° TCH 26', Trees. AIRPORT REMARKS: Attended 1400-2200Z‡. Unattended New Years Day and Christmas Day, 24 hr credit card self service 100LL Fuel. 03 03 03 C3 C3 ACTIVATE MIRL Rwy 08-26, PAPI Rwy 08 and Rwy 26 and REIL ଫଫ aa Rwy 08 and Rwy 26-123.3.

UTC-5(-4DT) N41°46.68′ W80°41.73′

TPA (See remarks) NOTAM FILE DAY

UTC-5(-4DT) N39°53.07′ W82°35.34′

WEATHER DATA SOURCES: ASOS 118.325 (440) 576-6907. COMMUNICATIONS: CTAF/UNICOM 122.8 JEFFERSON RCO 122.1R 115.2T (CLEVELAND RADIO) ERIE APP/DEP CON 121.0 (1100-0500Z±) CLEVELAND CENTER APP/DEP CON 132.4 (0500-1100Z±) GCO 121.725 (ERIE CLNC) RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. JEFFERSON (L) VOR/DME 115.2

W80°44.89' 070° 2.6 NM to fld. 900/5W.

JFN Chan 99 N41°45.61' COMM/NAV/WEATHER REMARKS: GCO avbl on freq 121.725 ERI CLNC DEL. Click 4 times for ERI tower and 6 times for Cleveland RADIO, GCO OTS indef

RWY 07: REIL. PAPI(P4R)—GA 3.0° TCH 25'. Thid dspicd 900'. Trees.

WEATHER DATA SOURCES: AWOS-3 128.325 (740) 597-2687 TF 1-888-682-4799.

3 NE

EC. 23 SEP 2010 to 18 NOV 2010

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ATHENS-ALBANY N39°12.66′ W82°13.89′ RCO 122.25 (DAYTON RADIO) ATHENS/ALBANY

RWY 07-25: H5600X100 (ASPH) S-30 MIRL

RWY 25: REIL. PAPI(P4L)-GA 3.0° TCH 50'. Trees.

OHIO UNIVERSITY SNYDER FLD (UNI) 10 SW UTC-5(-4DT) N39°12.71′ W82°13.76′ S4 FUEL 100LL, JET A OX 1

2300(1534), multiengine reciprocating 2000(1234), all others 1800(1034), Rwy 07-25 left traffic only. Extensive flight training, make every effort to observe traffic pattern altitudes. Avoid overflight of noise sensitive areas, church 1.8 mi NW of Rwy 25 end and village of Albany 2 mi E of apch end Rwy 25. Rwy 07 REILS located 949' from rwy end. ACTIVATE MIRL Rwy 07-25 and REIL Rwy 07 and Rwy 25-CTAF. PAPI Rwy 07 and Rwy 25 opr

24 hrs.

COMMUNICATIONS: CTAF/UNICOM 123.075 ATHENS-ALBANY RCO 122.25 (DAYTON RADIO) R HUNTINGTON APP/DEP CON 120.95 CLNC DEL 120.95 RADIO AIDS TO NAVIGATION: NOTAM FILE EKN.

Chan 106 N38°45.25′ W82°01.57′ 344° 29 NM to fld. 880/3W. HENDERSON (H) VORTAC 115.9 HNN UNIVERSITY NDB (MHW) 250 UGS N39°15.44′ W82°07.56′

IIS 108 75 I_UNI Rwy 25. Class IB

LOC unusable inside .5 NM. BALTIMORE

(7B4) 930 NOTAM FILE DAY LIRL (NSTD) RWY 09-27: 3250X50 (TURF) RWY 27: Thid dspicd 275'. Trees. RWY No. Thid depict 270' Trees

MILLER FARM LANDING STRIP

HELIPAD H1: Antenna.

AIRPORT REMARKS: Attended continuously. For rwy lgts call 614-862-6053. No student ops, no touch and go. Rwy

09-27 NSTD LIRL; rwy ends Igtd with 360° red Igts and dsplcd thlds Igtd with 1 360° green Igt each side of rwy. COMMUNICATIONS: CTAF 122.9

BANNOCK HELIPORT (2D6) 1100 NOTAM FILE CLE HELIPAD H1: H20X20 (CONC)

0 N UTC-5(-4DT) N40°06.42′ W80°58.52′

HELIPORT REMARKS: Attended Mon-Fri 1300-2100Z‡. Helipad H1 NSTD markings. **COMMUNICATIONS: CTAF 122.9** BARBER (See ALLIANCE)

03 03 03

CINCINNATI

CINCINNATI H-10G, L-29B

DETROIT

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H-10G, L-30G

L-29B IAP

AIRPORT REMARKS: Attended continuously. Deer and waterfowl invof arpt. TPA—turbine acft (except helicopters)

247° 5.5 NM to fld. NOTAM FILE DAY.

CINCINNATI

DETROIT

OHIO

BARNESVILLE-BRADFIELD (6G5) 1 NW UTC-5(-4DT) N40°00.15' W81°11.51'

S4 FUEL 100LL, JET A NOTAM FILE CLE 1312 RWY 09-27: H4004X65 (ASPH) S-30 MIRI

RWY 09: Thid dspicd 299'. Road. RWY 27: REIL. Trees. AIRPORT REMARKS: Attended dalgt hrs. Deer and other wildlife on and invof arpt. ACTIVATE rotating bcn, MIRL Rwy 09-27 and REIL Rwy

27—CTAF COMMUNICATIONS: CTAF/UNICOM 123 O

BELLAIRE RCO 122.1R 117.1T (CLEVELAND RADIO) **CLEVELAND CENTER APP/DEP CON 120.4** RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

(169)

S4

BELLAIRE (H) VOR/DME 117.1 AIR Chan 118 N40°01.02' W80°49.04' 274° 17.3 NM to fld. 1290/7W.

€3 ଓଓ 4004 X 65 €3 0 G G €3 **(3** Residentia

CLERMONT CO

BATAVIA

FUEL 100LL, JET A TPA-1843(1000) RWY 04-22: H3566X75 (ASPH) MIRL 0.9% up SW RWY 04: REIL. PAPI(P2L)-GA 4.0°. Thid dsplcd 396'. Road.

UTC-5(-4DT)

RWY 22: REIL(NSTD), PAPI(P2L)-GA 3.0°, Trees.

AIRPORT REMARKS: Attended Mon-Thu 1400Z‡-dusk, Fri-Sat 1400-2200Z‡, Sun 1600Z‡-dusk. Deer and other animals on and invof arot, ACTIVATE MIRL Rwv 04-22, PAPI and REIL Rwv 04 and Rwv 22-CTAF, Taxi on hard

2 W

surface only. COMMUNICATIONS: CTAF/UNICOM 122.975 (R) CINCINNATI APP/DEP CON 121.0 CLNC DEL 124.9

RADIO AIDS TO NAVIGATION: NOTAM FILE LOU. FALMOUTH, KY (H) VOR/DME 117.0 FLM SPORTYS NDB (MHW) 245 PWF N39°04.06′ W84°12.92′

NDB unusable byd 15 NM.

Chan 117 N38°38.97′ W84°18.64′

UTC-5(-4DT) N40°38.80′ W81°33.37′ (2D7) 1 E

BEACH CITY TPA-1800(816) NOTAM FILE CLE

RWY 10-28: 3175X115 (TURF) LIRL (NSTD) 0.5% up E

1180/7W.

RWY 10: REIL. VASI(V2L). Thid dsplcd 425'. P-line. AIRPORT REMARKS: Attended irregularly. No ultralight acft 1 NM radius. Rwy 10-28 NSTD LIRL; dsplcd thlds unlighted. ACTIVATE NSTD LIRL Rwy 10-28, Rwy 10 REIL and REIL Rwy 28, and rotating bcn-122,85, Rwy 10-28 dsplcd thId marked with thId lgts on 1' day glo red containers. Rwy 10-28 numbers incorrect.

COMMUNICATIONS: CTAF/UNICOM 122.8 (R) AKRON-CANTON APP/DEP CON 125.5 (1100-0500Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. NEWCOMERSTOWN (L) VOR/DME 111.8 CTW Chan 55 N40°13.75′ W81°28.59′ 359° 25.3 NM to fld.

HIWAS.

BELLAIRE N40°01.02′ W80°49.04′ NOTAM FILE CLE. (H) VOR/DME 117.1 AIR Chan 118 274° 17.3 NM to Barnesville—Bradfield. 1290/7W. VOR portion unusable 329°-349° below 6000'. RCO 122.1R 117.1T (CLEVELAND RADIO)

EC. 23 SEP 2010 to 18 NOV 2010

Area N39°04.70′ W84°12.61′ CINCINNATI 1-27F NOTAM FILE DAY IAP

014° 26.1 NM to fld. 810/4W. at fld. NOTAM FILE DAY.

RWY 28: REIL. VASI(V2R). Thid dsplcd 734'. P-line.

(R)CLEVELAND CENTER APP/DEP CON 134.9 (0500-1100Z±)

DETROIT

I-29B

IAP

DETROIT

L-29B

IAP

DETROIT H-10G, L-29B

UHIU BELLEFONTAINE RGNL (EDJ) 3 W UTC-5(-4DT) N40°22.34′ W83°49.16′ FUEL 100LL, JET A1+ 1122 B S2 NOTAM FILE DAY

AIRPORT REMARKS: Attended Mon-Fri 1300Z‡-dusk, Sat-Sun 1300-2200Z‡. ACTIVATE MIRL Rwy 07-25, PAPI Rwys

(R) DAYTON APP/DEP CON 118.425 (360°-090°) RADIO AIDS TO NAVIGATION: NOTAM FILE DAY. ROSEWOOD (H) VORTAC 117.5 ROD Chan 122 N40°17.27′ W84°02.59′ 069° 11.5 NM to fld. 1080/5W at fld. NOTAM FILE DAY.

NDB (MHW) 242 EDJ N40°22.26′ W83°48.83′ COMM/NAV/WEATHER REMARKS: AWOS-3 visibility and precipitation unreliable. BENTON RIDGE N41°01.27′ W83°40.15′ NOTAM FILE FDY

RWY 07-25: H4999X100 (ASPH) MIRL 0.4% up NE

RWY 07: REIL. PAPI(P4L)—GA 3.0° TCH 40'. P-line.

07, 25 and REIL Rwys 07 and 25-CTAF. WEATHER DATA SOURCES: AWOS-3 118.075 (937) 599-4654.

NDB (MHW) 334 BNR at Findlay, Unmonitored. BLOOM

COMMUNICATIONS: CTAF/IINICOM 122 8

(See JAMESTOWN) BLUFFTON (5G7) 1 SE UTC-5(-4DT) N40°53.13′ W83°52.12′

FUEL 100LL, JET A TPA-1851(1000) S3 S-12.5 MIRL RWY 05-23: H4126X75 (ASPH)

RWY 05: Trees. RWY 23: REIL. PAPI(P4L). Trees. AIRPORT REMARKS: Attended 1300-2300Z‡. PAEW 1300-2200Z‡ Mon-Fri. Twy marked with reflectors. ACTIVATE

216

MIRL Rwv 05-23 and PAPI Rwv 23 REIL Rwv 23-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8 (R) TOLEDO APP/DEP CON 120.8

RADIO AIDS TO NAVIGATION: NOTAM FILE FDY. FINDLAY (L) VORTAC 108.2 FDY Chan 19 N40°57.32′ W83°45.36′ 233° 6.6 NM to fld. 820/2W. COMM/NAV/WEATHER REMARKS: Unicom monitored irregularly.

BOLTON FLD (See COLUMBUS) BORDNER (See BOWLING GREEN)

BOUTN N39°49.16′ W83°12.29′ NOTAM FILE DAY.

690 NOTAM FILE CLE

NDB (MHW/LOM) 230 BU 038° 5.8 NM to Bolton Fld. Unmonitored when twr clsd. NDB unusable 355°-010° beyond 15 NM. **BOWLING GREEN**

BORDNER (3D8) 4 SW UTC-5(-4DT) N41°20.16′ W83°43.39′ RWY 09-27: 2703X30 (TURF) RWY 09: P-line. Rgt tfc.

S-5 LIRL RWY 27: Trees. COMMUNICATIONS: CTAF 122.9

WOOD CO (1GØ) 1 NE UTC-5(-4DT) N41°23.46′ W83°37.81′ RWY 10-28: H4199X75 (ASPH) MIRL RWY 10: REIL. PAPI(P4L). RWY 18-36: H2628X50 (ASPH) MIRI

RWY 18: REIL. PAPI(P4L). AIRPORT REMARKS: Attended Nov-Apr 1300-2300Z‡, May-Oct 1300-0000Z‡. Flocks of geese on and invof arpt during fall and winter. 160' AGL stadium lgts .6 NM SE of arpt. Rwy 28 is the calm wind rwy. Rwy 10 REIL OTS indef. Rwy 10 VASI OTS indef. ACTIVATE MIRL Rwy 10-28 and Rwy 18-36; REIL Rwy 10, Rwy 18, and Rwy 28 and PAPI Rwv 18-CTAF.

WEATHER DATA SOURCES: AWOS-3 120.725 (419) 354-1415. COMMUNICATIONS: CTAF/UNICOM 122.8 R TOLEDO APP/DEP CON 126.1 CLNC DEL 125.6 RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. WATERVILLE (L) VOR/DME 113.1 VWV Chan 78 N41°27.09′ W83°38.32′ 176° 3.7 NM to fld. 660/2W.

(See NEWTON FALLS)

BRACEVILLE

AIRPORT REMARKS: Unattended. Parachute Jumping. Arpt CLOSED indef. For LIRL Rwy 09–27 call 419–352–5200. B FUEL 100LL, JET A TPA-1700(1027) NOTAM FILE CLE

RWY 28: REIL. PAPI(P4L). Rgt tfc. RWY 36: Thid dspicd 57'. Road. Rgt tfc.

NOTAM FILE CLE

L-28J

DETROIT

DETROIT

DETROIT

CINCINNATI

L-29A

DETROIT

DETROIT

IAP

1-27F

IAP

L-28J

RWY 25: REIL. PAPI(P4L)-GA 4.0° TCH 57'. Fence.

1-27F

IAP

218 OHIO

RIICYRIIS

PORT BUCYRUS-CRAWFORD CO (17G) 1 S UTC-5(-4DT) N40°46.89′ W82°58.49′ 1003 B S4 FUEL 100LL NOTAM FILE CLE

RWY 04-22: H3895X75 (ASPH) S-17.1. D-35

RWY 04: REIL. PAPI(P4L). Thid dsplcd 277'. Trees.

RWY 22: REIL. SAVASI(S2L). Road. RWY 09-27: 2900X75 (TURF) 0.4% up E

RWY 27: Tree. RWY 09: Pole. AIRPORT REMARKS: Attended Apr-Oct 1300-2300Z±. Nov-Mar

1300-2200Z±.

WEATHER DATA SOURCES: AWOS-3 126.625 (419) 562-0297. COMMUNICATIONS: CTAF/UNICOM 122.8

(R) MANSFIELD APP/DEP CON 124.2 (1100-0400Z‡) R CLEVELAND CENTER APP/DEP CON 134.9 (0400-1100Z‡)

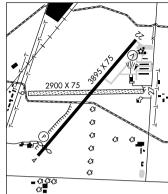
RADIO AIDS TO NAVIGATION: NOTAM FILE MFD.

MANSFIELD (L) VORTAC 108.8 MFD Chan 25 N40°52.12'

W82°35.46' 257° 18.3 NM to fld. 1210/3W.

10.7 NM to fld. NOTAM FILE MNN.

BUCKEYE (T) VORW 109.8 BUD N40°37.00′ W83°03.83′



DETROIT

DETROIT

L-29A

IAP

BURKE LAKEFRONT (See CLEVELAND)

BUTLER CO RGNL (See HAMILTON)

CADIZ N40°14.20′ W81°00.79′ NOTAM FILE CLE.

NDB (MHW) 239 CFX at Harrison Co. Unmonitored. VFR only. Out of svc indefinitely.

CADI7

HARRISON CO (8G6) 2 S UTC-5(-4DT) N40°14.30′ W81°00.77′ 1174 B S4 FUEL 100LL NOTAM FILE CLE

1.9% up NW RWY 13-31: H3765X75 (ASPH) S-30 MIRL

RWY 13: PAPI(P2L), Thid dsplcd 876', Hill. RWY 31: PAPI(P2L). Thid dsplcd 168'. Tree.

AIRPORT REMARKS: Attended 1400-2200Z‡. Rwy 13-31 asphalt poor due to large cracks, vegetation and weathering. Rwy 31 VASI OTS

indef. ACTIVATE MIRL Rwy 13-31 and PAPI Rwy 13 and Rwy 31-CTAF. Rotating bcn OTS indef. COMMUNICATIONS: CTAF/UNICOM 122.8

R CLEVELAND CENTER APP/DEP CON 120.4

RADIO AIDS TO NAVIGATION: NOTAM FILE HLG.

WHEELING (L) VOR/DME 112.2 HLG

Chan 59 N40°15.59'

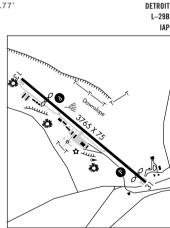
W80°34.12' 274° 20.5 NM to fld. 1269/07W.

CADIZ NDB (MHW) 239 CFX N40°14.20′ W81°00.79′

at fld. NOTAM FILE CLE. Unmonitored, VFR only.

Out of svc indefinitely.

027°



220 (5D6) 5 N UTC-5(-4DT) N40°38.89′ W81°04.12′ DETROIT S2 NOTAM FILE CLE 1290 RWY 09-27: 2530X75 (TURF) RWY 09: Trees. RWY 27. Tree AIRPORT REMARKS: Attended irregularly. Deer and birds on and invof arpt. Rwy 09-27 slopes up to the W. Rwy soft when wet. No line of sight between rwy ends. Aerobatic practice area 2280' MSL to 5000' MSL within 1 mile radius of arpt. Rwy 09 outlined with orange and white barrel halves and vellow tires at rwy end. COMMUNICATIONS: CTAF 122 9 **CASER** N39°44.93′ W82°32.12′ NOTAM FILE DAY CINCINNATI NUB (IUM) 338 IH 280° 5.7 NM to Fairfield Co. Unmonitored. **CELINA** LAKEFIELD 6 SE UTC-5(-4DT) N40°29.06′ W84°33.49′ DETROIT FUEL 100LL, JET A1+ NOTAM FILE DAY L-27E RWY 08-26: H4400X75 (ASPH) S-30 MIRI IAP RWY 08: REIL. PAPI(P4L)—GA 3.0° TCH 20'. P-line. RWY 26: REIL. PAPI (P4L)-GA 3.0° TCH 29'. Tree. AIRPORT REMARKS: Attended 1330Z‡-dusk. 100LL fuel 24 hr with credit card self svc. After hrs call ahead for Jet A service, Parachute Jumping, ACTIVATE MIRL Rwv 08-26 and REIL Rwv 08-26-123.3. COMMUNICATIONS: CTAF/UNICOM 122.8 R DAYTON APP/DEP CON 134.45 (181°-359°) RADIO AIDS TO NAVIGATION: NOTAM FILE DAY. ROSEWOOD (H) VORTAC 117.5 ROD Chan 122 N40°17.27′ W84°02.59′ 302° 26.4 NM to fld. 1080/5W. NDR (MHW) 205 COA N40°28.92' W84°33.86' on fld CHARDON N41°31.02′ W81°09.79′ NOTAM FILE CLE. DETROIT (H) VOR/DME 112.7 CXR Chan 74 137° 6.1 NM to Geauga Co. 1310/5W. H-10G, L-30G VOR portion unusable 357°-073° byd 10 NM blo 11,000′ 085°-099° byd 10 NM blo 11,000' 074°-084° bvd 10 NM blo 3.300' 104°-180° bvd 10 NM 6000' RCO 122.1R 112.7T (CLEVELAND RADIO) CHESAPEAKE/HUNTINGTON W VA LAWRENCE CO AIRPARK (HTW) 2 W UTC-5(-4DT) N38°25.15′ W82°29.66′ CINCINNATI FUEL 100LL NOTAM FILE DAY L-26H RWY 08-26: H3001X70 (ASPH) MIRL (NSTD) **(3** RWY 08: Thid dsplcd 173', Trees. RWY 26: Trees. AIRPORT REMARKS: Attended Oct-Apr 1400Z‡-dusk, May-Sep

1300Z‡-dusk. Parachute Jumping. Rwy 08-26 has many cracks,

YORK (L) VORTAC 112.8

COMMUNICATIONS: CTAF/UNICOM 122.7 RADIO AIDS TO NAVIGATION: NOTAM FILE LOU. YRK Chan 75 N38°38.65'

exhibits foreign object damage. Rwy 08-26 NSTD MIRL 70' from

rwy edges; Rwy 08 relocated thid 28' at ngt; 2973' lgtd at ngt.

W82°58.70' 125° 26.5 NM to fld. 1040/5W.

€3 3 **(3** €3 (G) **(3** 43 3 43 C3 C3 €3 43 03 03 Ø €3 O C 03 03 3001 X 70 ٠. 63 o_o €3 303 œ °3E €3 G G G 43 €3 03 03 03 03 C3 ପ୍ରତ୍ର ପ a C3 C3 (3 €3 €3

221 OHIO

CHILLICOTHE ROSS CO (RZT) 6 NW UTC-5(-4DT) N39°26.43′ W83°01.38′

RWY 12-30: 3130X125 (TURF) RWY 12: Thid dsplcd 330', P-line.

B S4 FUEL 100LL, JET A NOTAM FILE DAY RWY 05-23: H5404X100 (ASPH) S-30. D-60 MIRL 0.4% up SW RWY 05: REIL. PAPI(P4L)—GA 3.0° TCH 44'. Tree.

AIRPORT REMARKS: Attended 1300Z‡-dusk. Rwy 12-30 CLOSED indef. Avionics Shop on fld. MIRL Rwy 05-23 preset

RWY 30: Trees.

6 NE UTC-5(-4DT) N39°14.80′ W84°23.34′

0.7% up SW

AIRPORT REMARKS: Attended Apr-Nov 1200Z‡-dusk, Dec-Mar 1300Z‡-dusk. Deer and wildlife on and invof arpt. Noise abatement procedures departing Rwy 24; turn rgt heading 270° after tkf, departing Rwy 06 turn left 360°

(L) VORTAC 117.3 CVG Chan 120 N39°00.96' W84°42.20' 051° 20.2 NM to fld. 879/04W. NDB (MHW) 388 ISZ N39°14.93′ W84°23.38′ at fld. NOTAM FILE DAY. NDB OTS indef.

EC. 23 SEP 2010 to 18 NOV 2010

on low ints: to increase ints and ACTIVATE PAPI and REIL Rwys 05 and 23-123.0. Rwy 05-23 555' SW end

WEATHER DATA SOURCES: AWOS-3 119.225 (740) 779-1364. SAWRS

APPLETON (H) VORTAC 116.7 APE Chan 114 N40°09.06' W82°35.30' 211° 47.1 NM to fld. 1350/6W. 207° 5.6 NM to fld.

RWY 23: REIL. PAPI(P4L)-GA 3.0° TCH 45'. Trees.

YELLOW BUD (T) VOR 112.5 XUB N39°31.61′ W82°58.68′ NDB (MHW) 236 RZT N39°26.29' W83°01.73' at fld.

marked with Chevrons is unusable.

YELLOW BUD RCO 122.1R 112.5T (DAYTON RADIO)

(ISZ)

RWY 06: REIL, VASI(V2L)-GA 4.0° TCH 20', Trees. RWY 24: REIL. VASI(V2L)-GA 4.0° TCH 20'. Trees. Rgt tfc.

RWY 06-24: H3499X75 (ASPH) S-12.5 MIRL

COMMUNICATIONS: CTAF/UNICOM 122.8

R COLUMBUS APP/DEP CON 132.3 RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

COMMUNICATIONS: CTAF/UNICOM 123.0 (R) APP/DEP CON 121.0 CLNC DEL 124.9 RADIO AIDS TO NAVIGATION: NOTAM FILE CVG.

NDB unusable 330°-001° byd 10 NM; 060°-077° byd 10 NM and 200°-230° byd 10 NM.

COMM/NAV/WEATHER REMARKS: SAWRS avbl 1300-2300Z and upon reg call (740) 773-4788.

CINCINNATI

CINCINNATI-BLUE ASH

after tkf. Rwv 06 REIL OTS indef. MIRL Rwv 06-24 preset on low ints dusk-dawn; to increase ints and ACTIVATE

CINCINNATI

L-27E

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CINCINNATI

IAP

H-10G, L-29A

FUEL 100LL, JET A1+ OX 3 NOTAM FILE DAY

twy lgts and wind indicator and REIL Rwy 06 and 24-CTAF. WEATHER DATA SOURCES: AWOS-3 118.475 (513) 794-1520.

CINCINNATI MUNI ARPT LUNKEN FLD (LUK) 3 SE UTC-5(-4DT) N39°06.20′ W84°25.12′

CINCINNATI H-10G. L-27E IAP. AD **4**3

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CINCINNATI

CINCINNATI

L-29A

483 R S4 FUEL 100LL, JET A+ OX 1 LRA Class IV. ARFF Index A RWY 03R-21L: H6101X150 (ASPH-GRVD) S-60, D-70, 2S-88,

RWY 03R: REIL. PAPI(P4R). Tree. RWY 21L: MALSR, VASI(V4L)-GA 3.0° TCH 38', Trees. RWY 07-25: H5128X100 (ASPH-GRVD) S-11, D-20, 2D-55 MIRL

2D-140 HIRL

222

RWY 07: Thid dsplcd 439'. Tree. RWY 25: VASI(V4L)-GA 3.0° TCH 39'. Trees.

RWY 03L-21R: H3802X100 (ASPH) S-11 RWY 21R: VASI(V4L)-GA 4.0 TCH 46'. Tree. RWY N31 · Trees

AIRPORT REMARKS: Attended continuously. Fuel JET A+

C513-871-2020. Deer and birds on and invof arpt. 48 hr PPR for unscheduled air carrier ops with more than 30 passenger seats call 513-352-6340. Noise abatement procedures in effect call

513-352-6340. Acft maintenance run-ups restricted between 0200-1200Z‡. Rwy 25 and Rwy 21L apch ends are closely

aligned. Rotating bcn located 1.7 NM east of the center of Lunken arpt. Verify correct rwy and compass heading prior to departure. Rwys 03L-21R and 07-25 and Twy D not avbl for acft with more than 30 passenger seats. When twr clsd HIRL Rwv 03R-21L

preset on med ints; to increase ints and ACTIVATE MALSR Rwy 21L—CTAF. MIRL Rwy 03L-21R and Rwy 07-25 unavbl. Ldg fee. Flight Notification Service (ADCUS) available. WEATHER DATA SOURCES: ASOS (513) 321-6291.

COMMUNICATIONS: CTAF 118.7 ATIS 120.25 UNICOM 122.95 RCO 122.4 (DAYTON RADIO).

(R) APP/DEP CON 121.0 GND CON/CINC DEL 121 9

AIRSPACE: CLASS D svc 1200-0400Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE CVG. (L) VORTAC 117.3 CVG Chan 120 N39°00.96' W84°42.20' 072° 14.3 NM to fld. 879/04W.

NDB (MHW) 335 LUK N39°09.58' W84°20.48' 231° 4.9 NM to fld. NOTAM FILE LUK. Unmonitored when twr clsd.

MADEIRA NDB (MHW) 379 MDE N39°13.37′ W84°21.32′ 206° 7.7 NM to fld. NOTAM FILE LUK. Unmonitored when twr clsd.

LOC BC unusable byd 10 NM and 15° left and ILS/DME 110.9 I-LUK Chan 46 Rwy 21L. Class IA.

right of course. DME unusable byd 5° left and right of BC. DME unusable byd 25° left and right of course. COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

CINCINNATI WEST

(See HARRISON)

RWY 31: Trees.

NDB (MHW) 366 CYO

NOTAM FILE DAY RWY 13-31: 2375X90 (TURF) RWY 13: Trees.

COMMUNICATIONS: CTAF 122.9

CLARKS DREAM STRIP

CIRCI FVII I F

CIRCLEVILLE N39°31.39′ W82°58.78′ NOTAM FILE DAY.

(See COVINGTON, KY)

CINCINNATI/NORTHERN KENTUCKY INTL

AIRPORT REMARKS: Attended dawn-dusk. Parachute jumping. Repairs—part time weekends.

EC. 23 SEP 2010 to 18 NOV 2010

at Pickaway Co Meml. Unmonitored. SHUTDOWN.

(Ø3I) 4 NW UTC-5(-4DT) N39°38.62′ W83°01.05′

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NOTAM FILE LUK

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at fld

Class IV. ARFF Index A

PICKAWAY CO MEML (CYO) 5 S UTC-5(-4DT) N39°30.96′ W82°58.93′ B S2 FUEL 100LL, JET A ARFF Index Ltd. NOTAM FILE DAY RWY 01-19: H4351X75 (ASPH) S-30, D-40 MIRL 0.5% up N

RWY 19: REIL. PAPI (P4R)-GA 3.0° TCH 27'. Road. RWY N1. Trees AIRPORT REMARKS: Attended Mon-Sat 1300-0100Z‡, Sun 1300-2200Z‡. ACTIVATE MIRL Rwy 01-19, PAPI Rwy 19 and REIL Rwy 19-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.7

YELLOW BUD RCO 122.1R 112.5T (DAYTON RADIO)

R COLUMBUS APP/DEP CON 132.3

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

Chan 114 N40°09.06' W82°35.30'

APPLETON (H) VORTAC 116.7 APE HIWAS.

YELLOW BUD (T) VOR 112.5

XUB N39°31.61′ W82°58.68′

CIRCLEVILLE NDB (MHW) 366 CYO N39°31.39′ W82°58.78′

CLARK CO N39°52.42′ W83°46.77′ NOTAM FILE SGH.

NDB (MHW) 341 CCJ 238° 3.4 NM to Springfield-Beckley Muni. Unmonitored.

CLARKS DREAM STRIP (See CIRCLEVILLE)

CLERMONT CO (See BATAVIA)

CLEVELAND

BURKE LAKEFRONT (BKL)

.9 N UTC-5(-4DT) N41°31.05′ W81°41.00′ FUEL 100LL JET A OX 1. 2 S4

LRA RWY 06L-24R: H6198X150 (ASPH-GRVD) S-93, D-113, 2S-144, 2D-170 RWY 06L: REIL. VASI(V4L)—GA 3.0° TCH 32'. Thid dspicd 265'.

RWY 24R: MALSF, VASI(V4L)-GA 3.35° TCH 26', Bldg, Rgt tfc. RWY 06R-24L: H5197X100 (ASPH-GRVD) S-43, D-50,

2D-82 HIRL RWY 06R: Thid dspicd 267'.

RWY 24L: REIL. Antenna. Rgt tfc. AIRPORT REMARKS: Attended continuously. Rwy 06R-24L CLOSED when twr clsd. Birds and waterfowl on and invof airport. 72' ship crane 1300' SW of Rwy 06R. When twr clsd HIRL Rwy 06L-24R preset; To increase ints radio reg on UNICOM, ACTIVATE MALSF Rwy 24R—CTAF. PPR for unscheduled air carrier ops with more than 9 passenger seats ctc 216-781-6411. Rwy 06R-24L not

authorized for ops involving air carrier acft with more than 9 passenger seats. Rwy 06L-24R and Rwy 06R-24L apch surfaces have navigable waterways creating possible vessel obstruction areas—check local NOTAMS for current activity; vessel height: etc. Twy G east of twy F CLOSED. Rwy 06L VASI unusable byd 8° left and right of centerline. Ldg fee. Fee schedule based on

(ADCUS) avbl 24 hrs Mon-Fri reg for svc on Sat; Sun and Holidays must be made prior to 2130Z‡ on Fri; 2 hrs advance notice reg call 216-267-3600. Private acft and general aviation only. WEATHER DATA SOURCES: ASOS 125.25 (ops during twr hrs) (216) 241-6904. LLWAS. COMMUNICATIONS: CTAF 124.3 ATIS 125.25 UNICOM 122.95

number of engines and gross weight. Flight Notification Service

CXR

(R) CLEVELAND APP/DEP CON 125.35

LAKEFRONT TOWER 124.3 (Mon 1200Z‡ to Sat 0400Z‡; Sat 1200-0400Z‡, Sun 1300-0500Z‡)

GND CON 121.9

AIRSPACE: CLASS D svc Mon 1200Z± to Sat 0400Z±. Sat 1200-0400Z±. Sun 1300-0500Z± other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. CHARDON (H) VOR/DME 112.7

ILS/DME 109.75 I-BFT

TABEY NDB (LOM) 248 BF N41°34.15′ W81°34.43′ 245° 5.8 NM to fld. SHUTDOWN. Chan 34(Y)

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not available at twr. Clearance delivery provided by Cleveland

apch on 121.9 or call 216-898-2077 when Lakefront twr clsd.

EC. 23 SEP 2010 to 18 NOV 2010

Chan 74 N41°31.02′ W81°09.79′

Rwy 24R. Class IE.

L-27E

DETROIT

IAP, AD

NOTAM FILE BKL H-10G. L-30G

275° 23.4 NM to fld. 1310/5W.

LOM TABEY NDB. LOM SHUTDOWN.

CINCINNATI

212° 42.2 NM to fld. 1350/6W.

at fld. Unmonitored, SHUTDOWN.

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IAP

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I-29A

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CLEVELAND-HOPKINS INTL (CLE) 9 SW UTC-5(-4DT) N41°24.57′ W81°51.30′

FUEL 100LL, JET A1 + OX 1, 2, 3, 4 AOE Class I, ARFF Index C 791 B S4 NOTAM FILE CLE

RWY 06R-24L: H9955X150 (CONC-GRVD) S-100, D-185, 2S-175, 2D-340

RWY 06R: MALSR. TDZL. PAPI (P4L)-GA 3.0° TCH 47'. Thid dspicd 1926'. Trees.

RWY 24L: MALSR. PAPI (P4R)-GA 3.0° TCH 75'.

RWY 06L-24R: H9000X150 (CONC-GRVD) S-75, D-200, 2S-175,

2D-400 HIRL CI

RWY 06L: ALSF2. TDZL. PAPI(P4L)-GA 3.0° TCH 55'. Trees.

RWY 24R: ALSF2. TDZL. PAPI (P2R)-GA 3.0° TCH 55'.

RWY 10-28: H6017X150 (ASPH-CONC-GRVD) S-155, D-200, HIRL 0.5% up E. 2S-175, 2D-400

RWY 10: PAPI(P4L). Road. RWY 28: REIL. MALSR. PAPI(P4R)—GA 3.0° TCH 42'. Pole.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 06R: LDA-8029

AIRPORT REMARKS: Attended continuously. Deer and birds, including waterfowl, on and invof arpt. All apchs are over noise sensitive

areas. Arpt late night noise abatement procedures are in effect 0400-1100Z‡. Additional noise abatement procedures are in effect, call arpt manager normal business hrs at 216-265-6090.

Twy L2 clsd between Rwy 06R-24L and Twy L: area marked with Igtd barricades and reflectors. The following twys are clsd annually from 15 Oct through 15 Apr to support deicing ops at Cleveland-Hopkins Intl: Twy M, Twy M1 between Twy L and Twy J1, Twy M2 between Twy L and

Twy J1, Twy J2 between Twy A and Twy K. Taxilane J south of Twy K restricted to acft with a wingspan of 171' or less. Pad 2 rstd to Group II acft, less than 79' wingspan. NASA Glenn Research Center; NASA ramp PPR call 216-433-2020; Mon-Fri 1300-2230Z‡. Contact NASA ops on freq 122.925 within 50 NM. Ldg Fee. Rwys 06L,

24L and 24R runway visual range touchdown, midfield, rollout avbl. Rwy 28 runway visual range touchdown avbl. Flight Notification Service (ADCUS) available Mon-Fri 1200-0200Z±: Sat-Sun 1400-2200Z±: all request for svc must be made with the U.S. Customs Svc office lctd at gate A-14 call 216-267-3600 during listed hours. NOTE: All CLE SOIA/PRM users refer to Special Notices Section. NOTE: See Special Notices—ILS Prior

(Simultaneous Close Parallel) Procedure For Pilots Filing Flight Plans to Cleveland-Hopkins Intl (CLE). Continuous Power Facilities.

WEATHER DATA SOURCES: ASOS (216) 267-9955/9956. TDWR.

COMMUNICATIONS: D-ATIS ARR 127.85 D-ATIS DEP 132.375

RCO 122.35 122.2 122.1R 113.6T (CLEVELAND RADIO) R APP CON 124.0 (Rwy 06R-24L and Rwy 28) 126.55 and Rwy 28 119.625 (Rwy 06L-24R)

R DEP CON 118.15 (057°-236°) 128.25 (237°-056°) 125.85 TOWER 120.9 (Rwy 06R-24L and Rwy 10-28) 124.5 135.225 (Rwy 06L-24R)

GND CON 121.7 (Rwy 06R-24L and Rwy 10-28) 133.6 (Rwy 06L-24R)

CLNC DEL 125.05 PRE-TAXI CLNC 125.05 RAMP CTL 129.17

AIRSPACE: CLASS B: See VFR Terminal Area Chart.

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

DRYER (H) VOR/DME 113.6 DJB

Chan 83 N41°21.48′ W82°09.72′ 082° 14.2 NM to fld. 780/5W. ILS/DME 109.9 I-HPI Chan 36 Rwy 24L. Class IE.

Class IE.

ILS/DME 110.7 I-PXP Chan 44 Rwy 28. Class IE. Autopilot coupled apch not authorized blow 1080'.

ILS/DME 111.55 I–LIZ Chan 52Y Rwy 06L. CLASS IIIE.

I-PVY Chan 52Y Class IIIE. IIS/DMF 111 55 Rwy 24R.

COMM/NAV/WEATHER REMARKS: Freq 121.5 not avbl at FSS.

Chan 56 Rwy 06R. ILS/DME 111.9 I-CLE

EC. 23 SEP 2010 to 18 NOV 2010

IAP. AD HIRI Rwy 10-28: 6017 X 150 Rwy 6L-24R: 9000 X 150 (Ā

H-10G I-30G

2AWIH

at fld. NOTAM FILE CGF. SHUTDOWN.

LOC unusable byd 10 NM blo 3000', LOC BC

109° 9.4 NM to fld. 780/5W.

225 CUYAHOGA CO (CGF) 10 E UTC-5(-4DT) N41°33.91′ W81°29.18 DETROIT

R S4 FUEL 100LL, JET A, A1+ OX 3 TPA—See Remarks RWY 06-24: H5102X100 (ASPH-GRVD) S-43, D-55, 2D-100

AIRPORT REMARKS: Attended continuously. Rwy 06-24 CLOSED to jet

acft with more than 30 passengers. Birds and deer on and invof

arpt. Flight training prohibited 0400-1200Z‡. Tower visibility SW

course. HIRL Rwy 06-24 step one OTS indef. TPA-1879 (1000), turbines 2379 (1500). Twy A4 not avbl for air carrier ops with

06-24, REIL Rwy 06, MALSR Rwy 24-CTAF. PAPI Rwy 06 and Rwy

CLEVELAND CLNC DEL 121.85

Chan 74 N41°31.02'

Rwv 24. Class IB.

unusable byd 10 NM and unusable byd 15°R of course. (BACK) GS unusable for coupled apchs blo 2020'. COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not available at twr. Clnc del provided by Cleveland apch on

24 and windsock operate continuously. Ldg fee, Parking fee for

COUNTY TOWER 118.5 (1200-0400Z±) GND CON 121.85

CXR

Chan 48

286° 14.9 NM to fld. 1310/5W.

GF N41°34.45′ W81°28.27′

AIRSPACE: CLASS D svc 1200-0400Z± other times CLASS G.

RWY 06: REIL. PAPI(P4L)-GA 3.0° TCH 42'. Pole. RWY 24: MALSR. PAPI(P4L)-GA 3.0°TCH 50'. Trees. NOTAM FILE CGF H-10G I-30G

IAP, AD

€3 03 03 03 Š 0000 00000 (00 0 0 reduced within 500' AER 06. Rwy 24 PAPI unusable byd 7° right of more than 30 passenger seats. When twr clsd ACTIVATE HIRL Rwy C3 C3 . Cr €3 ß C3 C3 â 03 C3 **3** 03 03 GG GG €3 33 00 ය ය 0303

COBBS N39°44.58′ W83°01.22′. NOTAM FILE LCK. 050° 6.0 NM to Rickenbacker Intl. COLUMBIA (See COLUMBIA STATION) COLUMBIA STATION (4G8) 1 NW UTC-5(-4DT)

N41°19.13' W81°57.61'

EC. 23 SEP 2010 to 18 NOV 2010

RWY 36L: Thid dspicd 209'. Tree.

FUEL 100LL NOTAM FILE CLE RWY 18R-36L: H3152X40 (ASPH) LIRL (NSTD)

over two hrs.

WEATHER DATA SOURCES: LAWRS.

(R) CLEVELAND APP/DEP CON 125.35

CHARDON (H) VOR/DME 112.7

121.85 when twr clsd.

W81°09.79' HOGAF NDB (LMM) 521

ILS/DME 111.1

CLINTON FLD

COMMUNICATIONS: CTAF 118.5 UNICOM 122.95

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

I-CGF

(See WILMINGTON)

RWY 18L-36R: 2974X65 (TURF) RWY 18L: Trees. RWY 36R: Tree. RWY 02-20: 2580X85 (TURF) RWY 02: Brush.

RWY 18R: Thid dspicd 300'. Trees.

RWY 20: Trees. AIRPORT REMARKS: Attended irregularly. Rwy 02-20 CLOSED indef. Use hard surface rwy when wet. Rwy 02-20 surface rough, Rwy 18L-36R sfc rough, only south one third of rwy mowed, Rwy 18R-36L payement

poor-weathered. ACTIVATE NSTD LIRL Rwy 18R-36L-CTAF. Rwy 18R-36L NSTD LIRL; no thid lgts. Rwy 18R-36L N 300' and S 200' unmarked. Rwy 18R NSTD dsplcd thld markings, no arrowheads. Rwy 36L NSTD dsplcd thld markings, no arrowheads. COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. DRYER (H) VOR/DME 113.6 Chan 83 N41°21.49′ W82°09.72′ COLUMBIANA CO (See EAST LIVERPOOL)

COLUMBUS N39°59.69' W82°53.13' RC0 122.2 122.3 (DAYTON RADIO)

CINCINNATI H-10G, L-29A

CINCINNATI

DETROIT

L-30G

B S4 FUEL 100LL JET A1+ 0X 3 TPA-1705(800)

GND CON 121.8

RWY 04-22: H5500X100 (ASPH) S-48. D-75. 2S-95. 2D-150 MIRL

on and invof arpt. Birds and deer and coyote on and invof arpt. When twr clsd MIRL Rwv 04-22 preset medium ints, to increase

ints-ACTIVATE MALSR Rwv 04 and REIL Rwv 22-CTAF.

CUI IIMBIIS

BOLTON FLD (TZR) 8 SW UTC-5(-4DT) N39°54.07′ W83°08.22′

RWY 04: MALSR. PAPI(P4L)-GA 3.0° TCH 40'. AIRPORT REMARKS: Attended 1200-0200Z‡. Balloon and banner activity

RWY 22: REIL, PAPI(P4L)-GA 3.0° TCH 31', Trees.

CINCINNATI

IAP. AD

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H-10G, L-29A

WEATHER DATA SOURCES: AWOS-3 135.925 (614) 878-1722. Unavbl 1230-0030Z±. COMMUNICATIONS: CTAF 128.1

(R) COLUMBUS APP/DEP CON 132.3 TOWER 128.1 (1230-0030Z±)

AIRSPACE: CLASS D svc 1230-0030Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY. APPLETON (H) VORTAC 116.7 APE Chan 114 N40°09.06'

W82°35.30' 246° 29.4 NM to fld. 1350/6W. HIWAS. BOUTN NDB (MHW/LOM) 230 BU N39°49.16' W83°12.29'

038° 5.8 NM to fld. Unmonitored when twr clsd. NDB unusable 355°-010° bvd 15 NM.

ILS 111.7 I-BUZ Rwv 04

LOM BOUTN NDB. Unmonitored when twr clsd. GS unmonitored when twr clsd. LOC unusable 355°-010° byd 15 NM.

n **43 ⊘**3 N 63 Detention

NOTAM FILE TZR

COLUMBUS SOUTHWEST (Ø41) 920 B NOTAM FILE DAY RWY 06-24: 2382X120 (TURF) LIRI

RWY 06: Trees.

RWY 24: Bldg.

LIRL OTS indef. COMMUNICATIONS: CTAF 122.9

DARBY DAN (616) 10 W UTC-5(-4DT) N39°56.52′ W83°12.29′

928 B FUEL 100LL, JET A NOTAM FILE DAY RWY 09-27: H5892X75 (ASPH)

RWY 09: REIL. PAPI(P4L). Thid dsplcd 1343'. Tree. RWY 27: REIL. PAPI(P4L). Thid dspicd 543'. Tree. Rgt tfc. AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡. Prior arrangement

for Sat-Sun call 614-853-2400. Rwy 09 PAPI OTS indef. Rwy 27 PAPI OTS indef. ACTIVATE MIRL Rwv 09-27: rotating bcn: REIL

MIRI

Rwy 09 and Rwy 27; PAPI Rwy 09 and Rwy 27-CTAF. Rwy 09 and Rwy 27 REILS OTS indef. Ldg fee. COMMUNICATIONS: CTAF/UNICOM 122.7

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY. APPLETON (H) VORTAC 116.7 APE Chan 114 N40°09.06' W82°35.30' 252° 31.1 NM to fld. 1350/6W. HIWAS.

CINCINNATI H-10G, L-29A 5892 X 75 (3) €3 CβCβ €3 Ø ß

CINCINNATI

DEPARTMENT OF TRANSPORTATION HELIPORT (2A7) O W UTC-5(-4DT) N39°57.59′ W83°02.65′

HELIPORT REMARKS: Attended continuously.

HELIPAD H1: H40X40 (ASPH) COMMUNICATIONS: CTAF 122.9

NOTAM FILE DAY

715

EC. 23 SEP 2010 to 18 NOV 2010

COMM/NAV/WEATHER REMARKS: Emerg frequency not monitored all times. Ctc Gnd Con 121.8 for weather 1230-0030Z‡. 11 SW UTC-5(-4DT) N39°54.67′ W83°11.33′ CINCINNATI AIRPORT REMARKS: Attended 1400-2200Z‡. Rwy 06-24 undulating surface; rwy soft when wet; check NOTAMS or call arpt manager at 614-878-4080. Helicopters, acft towing banners and ultralights use rgt tfc. Rwy 06-24 has soft spots. For LIRL Rwy 06-24 and rotating bcn call 614-878-4080. Rwy 06-24 NSTD LIRL; Rwy 06-24 NSTD

Rwy 9L-27R: 2994 X 100

Rwy 5-23: 3555 X 100

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Residential Area

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H-10G. L-29A

N40°04.79′ W83°04.38′

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OHIO STATE UNIVERSITY (OSU) 10 NW UTC-5(-4DT)

> OX 1, 2 FUEL 100LL, JET A1 + Class IV. ARFF Index A NOTAM FILE OSU HIRI

> > 0.3% up SW

RWY 09R-27L: H5004X100 (ASPH-GRVD) S-45, D-60

3350

MIRL

RWY 09R: MALSR. PAPI(P4L)-GA 3.0° TCH 51'. Pole.

S-21, D-32

RWY 05-23: H3555X100 (ASPH) RWY 05: Trees. RWY 23: Trees. RWY 14-32: H3437X100 (ASPH) S-32.5, D-42, 2D-61 MIRI

RWY 27L: REIL, PAPI(P4L)—GA 3.0° TCH 26', Tree.

RWY 14. Trees RWY 32: Trees RWY 09L-27R: H2994X100 (ASPH) S-25.2 MIRL 0.4% up W

RWY 09L: VASI(V2L)-GA 3.0° TCH 29'. Silo.

905

S4

R

RWY 27R: VASI(V2L)-GA 3.0° TCH 42', Trees.

LAND AND HOLD SHORT OPERATIONS LANDING HOLD SHORT POINT DIST AVRI

RWY 05 09L-27R

RWY 09L 05-23

2550 RWY 09R 14-32 09R-27L

3300

RWY 14 2750 **RWY 23** 09R-27I 2500

RWY 27L 05-23 3300

RUNWAY DECLARED DISTANCE INFORMATION

TORA-3555 TODA-3555 ASDA-3555 LDA-3555 TORA-2994 TODA-2994 ASDA-2994 LDA-2994

TORA-5004 TODA-5004 ASDA-5004 LDA-5004

TORA-3555 TODA-3555 ASDA-3555 LDA-3555

TORA-5004 TODA-5004 ASDA-5004 LDA-5004

TORA-2994 TODA-2994 ASDA-2994 LDA-2994

passenger seats and unscheduled air carrier ops greater than 30 passenger seats, 90-day PPR, call arpt manager 614-292-5460. Noise sensitive area within 4 miles to the N and NE. Noise abatement restrictions: No touch and go ldgs or repeated tkf and ldgs 0400-1200Z± daily. All movement area N of Rwy 09R-27L are

clsd announce arrival on freq 118.8. When twr clsd HIRL Rwy 09R-27L, and either MIRL Rwy 05-23 or Rwy 14-32 may be preset med ints in favor of forecasted wind, and MIRL Rwy 09L-27R not avbl. WEATHER DATA SOURCES: ASOS (614) 451-2465. LAWRS.

COMMUNICATIONS: CTAF 118.8 ATIS 121.35 UNICOM 122.95 R COLUMBUS APP/DEP CON 120.2

GND CON 121.7 STATE TOWER 118.8 (1200-0400Z‡)

AIRSPACE: CLASS D svc 1200-0400Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY. APPLETON (H) VORTAC 116.7 APE

Chan 114 N40°09.06' W82°35.30' 265° 22.7 NM to fld. 1350/6W. HIWAS. DON SCOTT NDB (MHW) 348 DKG N40°04.82' W83°04.73' at fld_NOTAM_FILE_OSU_Unmonitored when twr

AIRPORT REMARKS: Attended 1130-0400Z‡. Helicopter Indgs on Twy A prohibited. Helicopter Idg/tkfs from the FBO ramp prohibited. Birds and deer on and invof arpt. Closed to scheduled air carrier ops with greater than 9

not avbl for air carrier ops with more than 30 passenger seats. Snow removal operating procedures: when twr

CLNC DEL 121.7

clsd. SHUTDOWN. FULER NDB (MHW/LOM) 515 OS N40°04.42′ W83°11.89′ 091° 5.8 NM to fld.

I-OSU Rwv 09R LOM FULER NDB. Unmonitored when twr clsd.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

HELIPAD H1: H40X40 (ASPH) HELIPORT REMARKS: Helipad (unlit) relocated N side of airfield, adjacent Air Guard ramp, Twy G. All app/dep routes helicopters ops are conducted in an area 130°-110° clockwise using the touchdown pad as the center of a

PORT COLUMBUS INTL (CMH) 6 E UTC-5(-4DT) N39°59.88' W82°53.51' FUEL 100, JET A1 + OX 3, 4 LRA Class I. ARFF Index C B S4 NOTAM FILE CMH RWY 10R-28L: H10125X150 (ASPH-GRVD) S-100, D-200, 2S-175, 2D-325 HIRI

H-10G. L-29A

IAP, AD

RWY 10R: MALSR. PAPI(P4R)-GA 3.0° TCH 72'

RWY 28L: MALSR. RWY 10L-28R: H8000X150 (ASPH-GRVD) S-100, D-160, 2S-175,

2D-275 HIRL RWY 10L: MALSR, PAPI(P4L)-GA 3.0° TCH 51'

RWY 28R: MALSR. PAPI(P4R)-GA 3.0° TCH 50'.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 10L: TORA-8000 TODA-8000 ASDA-8000 LDA-8000

RWY 10R: TORA-10125 TODA-10125 ASDA-10125 LDA-10125

RWY 28L: TORA-10125 TODA-10125 ASDA-10125 LDA-10125 RWY 28R: TORA-8000 TODA-8000 ASDA-8000 LDA-8000 AIRPORT REMARKS: Attended continuously. Birds invof arpt. PAEW

adjacent all rwys and twys. Model acft tfc within a 1 NM radius of a point 8 NM on a 010° bearing from the arpt; surface-5000 ft AGL; SR-SS daily. Be alert: Rwy 10L/28R restrictions on Stage I and II turbojet acft 0300-1300Z‡ and on Stage III turbojet acft

0300-1200Z‡. Practice apchs for high noise level type acft including non-Stage III military jet acft shall not be approved unless Rwv 10R/28L is in use and the apch terminates in a full

stop taxi-back ops. All surfaces around terminal; N of Twy 'C' and S of Twy 'E' are non-movement areas. Twy B3 S of Twy B restricted to acft with wingspan less than 79'. C-3 pavement (north of Twy C) is 35' wide; restricted to acft 50,000 lbs or less with wing span less than 79'. Twy L1 restricted to acft with wingspan less than 118'. Twy L2 restricted to acft with wingspan less than 118'. Twy J2 restricted to acft with wingspan less than 120'.

Twy B between Twys B4 and B5 restricted to acft with wingspan less than 126'. Twys F and G, S of Twy B, restricted to acft weighing 45,000 lbs or less. Noise barrier located at SE side of airfield restricted to acft with wingspan less than 79'. Ldg fee. Twy F lgts S of Twy 'G' OTS indef. To req ldg rights ctc US Customs between 1230-0300Z Mon-Fri at 614-497-1865, Flight Notification Service (ADCUS) avbl.

WEATHER DATA SOURCES: ASOS (614) 338-0561, LLWAS, TDWR.

COMMUNICATIONS: D-ATIS 124.6 UNICOM 122.95

COLUMBUS RCO 122.2 122.3 (DAYTON RADIO) (R) columbus app/dep con 119.15 132.3 (100°-279°) 125.95 (280°-099°) 118.2 119.65

COLUMBUS TOWER 132.7 GND CON 121.9 CLNC DEL 126.3

AIRSPACE: CLASS C svc continuous ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

APPLETON (H) VORTAC 116.7 APE Chan 114 N40°09.06′ W82°35.30′ 243° 16.7 NM to fld. 1350/6W.

GRENS NDB (MHW) 272 CHC N40°00.61′ W83°01.74′ 102° 6.4 NM to fld. NOTAM FILE CMH.

SUMIE NDB (HW/LOM) 391 CM N39°59.17′ W82°45.27′ 281° 6.4 NM to fld. Unmonitored.

I_CRP Chan 28 Rwv 10L. Class IA. LOM GRENS NDB. DME also serves Rwv 28R.

ILS/DME 108.7 I-CMH Chan 24 Rwy 28L. LOM SUMIE NDB. LOM unmonitored. DME also serves Rwy

10R

ILS/DME 108.7 I–AQI Chan 24 Rwy 10R. DME also serves Rwy 28L. **ILS/DME** 109.1 I-ONB Chan 28 Rwy 28R. DME also serves Rwy 10L. Glide slope unusable for autopilot

coupled apchs blo 2023'. COMM/NAV/WEATHER REMARKS: ILS/DME Rwv 10L outer marker OTS indef.

RICKENBACKER INTL (LCK)(KLCK) CIV/MIL/ANG/ARNG 10 S UTC-5(-4DT)

N39°48.83' W82°55.67'

H-10G, L-29A Class I. ARFF Index A IAP. DIAP. AD

744 B S4 FUEL 100LL, JET A TPA -See Remarks LRA NOTAM FILE LCK

RWY 05R-23L: H12102X200 (ASPH-CONC-GRVD) S-75, D-120, 2S-175, 2D-380, 2D/2D2-800 HIRL CL

RWY 05R: ALSF2, TDZL, PAPI(P4L)-GA 3.0° TCH 66'.

RWY 23L: MALSR. PAPI(P4L)-GA 3.0° TCH 74'.

RWY 05L-23R: H11902X150 (ASPH-GRVD) S-75, D-120, 2S-175,

2D-240, 2D/2D2-700 HIRL RWY 05L: MALSR. PAPI(P4L)-GA 3.0° TCH 75'. Thid dsplcd 898'.

RWY 23R: REIL. PAPI(P4L)—GA 3.0° TCH 75'. Thid dspicd 989'.

MILITARY SERVICE: LGT Boundary Igt avbl. JASU 2(A/M-32A) (MA-1A) 3(AM32-95)

FUEL J8(Military) (NC-100LL), A, A+ (Air BP, avbl Mon-Fri 24 hours, Sat 0500-0200Z‡, Sun including holidays

0900-0500Z‡, 4 hour prior notice required but no PPR C614-492-9674, after hour fee \$130. FLUID SP PRESAIR LHOX

TRAN ALERT Ltd svc avbl but no PPR. No ANG tran svc off ANG ramp.

AIRPORT REMARKS: Attended continuously. General aviation svcs attended continuously call C614-237-3747 ext 318, or 614-409-4900. Birds on and invof arpt. Twv M clsd indef. Twv J

clsd to group V acft. Noise abatement procedures in effect from 0400-1200Z‡, dep Rwy 23L and 23R winds 10 knots or less; arrivals Rwy 05L and 05R winds 10 knots or less; arrpt ops C614-492-2436. PPR for unscheduled Air Carrier ops with more than 30 passenger seats. Rwy 05R-23L has 1000' stopway on both ends; not avbl for ASDA. Rwy 05R-23L PAPI and ILS radar position indicator not coincidental. TPA for lgt acft weighing 12,500 lbs or less 1400(656), TPA for acft greater than 12,500 lbs 1900(1156), TPA for overhead tfc 2400(1656), Rwy 05R ALSF II unmonitored indef, Rwy 05R-23L PAPI and ILS Runway Point of Intercept not coincidental. To req ldg rights ctc US Customs between 1230-0300Z‡ Mon-Fri at 614-497-1865.

MILITARY REMARKS: See FLIP AP/1 Supplementary Arpt Remarks, RSTD AMC acft opr restricted during Bird Watch Conditions Moderate (tkf and Idg permission only when departure/arrival routes avoid identification bird activity. no local IFR/VFR tfc pattern) and Severe (tkf and ldg prohibited without OG/CC approval) ctc Comd Post for current Bird Watch Conditions code. All military acft must RON on 121 ARW or Detachment-21 ramp when space is avbl. All fixed wing military acft requiring parking and/or svc on 121 ARW ramp must have PPR number 48 hr in advance from Base OPS DSN 696-4595, C614-492-4595. Base OPS hr vary. Clsd holidays. CAUTION Bird and deer hazard. CSTMS/AG/IMG Avbl only with prior coordination. ANG 121 ARW KC-135-R Comd Post DSN 696-4468. Limited tran svc avbl, weekdays 1200-2000Z‡ except holidays. Limited tran fuel/parking, tran aircrew must

assist/perform refuel opr. Fuel avbl on ANG ramp on prior request only. Acft support not coordinated by PPR 48 hr prior with 121 ARW may not be avbl. ARNG Opr weekdays 1200-2100Z‡ except holidays. No tran svc after 1900Z‡, DSN 346-6411, C614-336-6411. Ctc C-26 OPS prior to entering C-26 ramp park area, 139.3 DSN

WEATHER DATA SOURCES: AWOS-3 132,750 (C614) 492-2441.

COMMUNICATIONS: UNICOM 122.95

346-6473, C614-336-6473,

(R) COLUMBUS APP/DEP CON 119.15 279.6

RICK TOWER 120.05 348.4 GND CON 121.85 257.8

ANG COMD POST 238.8 (RICK CON) ARNG OPS 142.6 228.8 36.7 ARNG C-26 OPS 139.3 121 ARW OPS 238.8 (BRUTUS OPS)

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

APPLETON (H) VORTAC 116.7 APE Chan 114 N40°09.06' W82°35.30' 224° 25.6 NM to fld. 1350/6W. HIWAS.

(T) TACAN Chan 69 LCK (134.2) N39°48.49′ W82°55.73′ at fld. 732/5W. NOTAM FILE LCK. No NOTAM

MP Wed 1300-1500Z‡.

TACAN azimuth unusable: 290°-300° blo 4,000'

TACAN azimuth and DME unusable:

130°-170° byd 18 NM blo 5,000′

075°-130° byd 12 NM blo 5,000'

075°-170° blo 3.000'

DD N39°44.58′ W83°01.22′ 050° 6.0 NM to fld. COBBS NDB (LOM) 253

PICKL NDB (LOM) 376 LC N39°52.86′ W82°50.17′ 231° 5.9 NM to fld.

ILS/DME 110.1 I-DDV Rwy 05R. LOM COBBS NDB, No NOTAM MP Mon, Tue Chan 38 Class IIE. 1300-1700Z‡.

ILS 110.1 I-LCK Rwy 23L. Class IE. LOM PICKL NDB. MM OTS indef. No NOTAM MP Mon, Tue 1300-1700Z‡.

ILS/DME 110.55 I-FOS Chan 42Y Rwy 05L. Class IF

COMM/NAV/WEATHER REMARKS: Ctc ground control for clearance prior to push back onto Twy A from cargo ramp 2.

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	CONCORD AIRPARK (See PAINESVILLE)	
COS	RICHARD DOWNING (I4Ø) 3 N UTC-5(-4DT) N40°18.55′ W81°51.20′ 979 B FUEL 100LL, JET A NOTAM FILE CLE RWY 04-22: H4099X75 (ASPH) S-30, D-35 MIRL RWY 04: PAPI(P2L)—GA 3.5°. Trees. RWY 22: REIL. PAPI(P2L). AIRPORT REMARKS: Attended May-Oct 1300-0100Z‡, Nov-Apr 1300-2200Z‡. Deer on and invof arpt. Rwy 22: OTS indef. PAPI Rwys 04 and 22 opr continuously. ACTIVATE MIRL Rwy 04-22—122.9. WEATHER DATA SOURCES: AWOS-3 118.875 (740) 295-7370. COMMUNICATIONS: CTAF/UNICOM 123.0 (R) INDIAMAPOLIS CENTER APP/DEP CON 124.45 RADIO AIDS TO NAVIGATION: NOTAM FILE ZZV. ZANESVILLE (L) VOR/OME 111.4 ZZV Chan 51 N39°56.45′ W81°53.56′ 011° 22.2 NM to fld. 900/68	
	COURT HOUSE N39°36.05′ W83°23.50′ NOTAM FILE DAY. NDB (MHW) 414 CSS 222° 2.3 NM to Fayette Co. NDB unusable 115°-165° byd 20 NM.	CINCINNATI L-29A

EC. 23 SEP 2010 to 18 NOV 2010

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LOC unusable byd 25° left of course.

GND CON 121.7

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COVINGTON KY

CINCINNATI/NORTHERN KENTUCKY INTL (CVG) 8 SW UTC-5(-4DT) N39°02.93′ W84°40.07′ CINCINNATI B S4 FUEL 100LL, JET A LRA ARFF Index D NOTAM FILE CVG H-10G, L-26F, 27E

S-75, D-210, 2S-175,

RWY 09-27: H12000X150 (ASPH-CONC-GRVD) S-75, D-210, 2S-175, 2D-400, 2D/2D2-850

RWY 09: MALSR, PAPI(P4L)-GA 3.0° TCH 76'.

RWY 18L-36R: H10000X150 (CONC-GRVD)

2D-400, 2D/2D2-850

0.3% down.

RWY 27: MALSR(NSTD), VASI(V4L)-GA 3.0° TCH 60'.

RWY 18C-36C: H11000X150 (ASPH-CONC-GRVD)

S-75, D-210, 2S-175, 2D-400, 2D/2D2-850 RWY 18C: SSALR, TDZL, VASI(V4R)-GA 3.0° TCH 52'.

RWY 36C: ALSF2, TDZL, PAPI(P4L). 0.6% up

HIRL CL

RWY 18L: MALSR. TDZL. PAPI(P4R) RWY 36R: ALSF2. TDZL. PAPI(P4R). RWY 18R-36L: H8000X150 (CONC-GRVD) S-75, D-210, 2D-400,

2D/2D2-850 HIRL CL RWY 18R: ALSF2, TDZL. RWY 36L: ALSF2, TDZL, Tree.

RUNWAY DECLARED DISTANCE INFORMATION:

RWY 09: TORA-12000 TODA-12000 ASDA-11880 LDA-11880

RWY 27: TORA-12000 TODA-12000 ASDA-12000 LDA-12000

AIRPORT REMARKS: Attended continuously. Rwy 09-27 W 4200' conc; E 750' conc; remainder asph overlay. For all rwys gross weight strength for 777 acft is 595,000 lbs. For all rwvs gross weight strength for MD-11 acft is 605.000 lbs. Rwvs 09-27 and

18C-36C gross weight strength for DC-10 and L-1011 acft is 510,000 lbs. Noise sensitive areas N and S of arpt. Rwy 36R touchdown, midfield and rollout rwy visual range avbl. Rwy

assignments between 0300-1200Z‡ will be predicated on noise abatement considerations. Successive or simultaneous departures from Rwvs 18L/C are approved with course divergence beginning no further than 2 miles from EOR due to noise abatement restrictions. Successive or simultaneous departures from Rwy 36L and Rwy 36R are approved with course divergence beginning no further than 2 miles from EOR due to noise abatement restrictions. Rwy 18R touchdown, midfield and rollout RVR avbl. Rwy 36L touchdown, midfield and rollout RVR avbl. Flight Notification Service (ADCUS) avbl. NOTE: See Special Notices—Continuous Power

UNICOM 122.95

WEATHER DATA SOURCES: ASOS (859) 767-8210, TDWR. COMMUNICATIONS: D-ATIS ARR 134.375 D-ATIS DEP 135.3

RCO 122.1R 117.3T (LOUISVILLE RADIO)

R APP CON 123.875 (270°-089°) 119.7 (090°-269°)

TOWER 118.975 (Rwy 18L-36R) 118.3 (Rwy 18C-36C Rwy 09-27) 133.325 (Rwy 18R-36L)

(West) 121.3 (East) CLNC DEL 127.175 R DEP CON 128.7 (181°-360°) 126.65 (001°-180°)

AIRSPACE: CLASS B svc continuous etc APP CON RADIO AIDS TO NAVIGATION: NOTAM FILE CVG.

Chan 120 N39°00.96′ W84°42.20′ (L) VORTAC 117.3 CVG 044° 2.6 NM to fld. 879/4W.

ILS 108.7 I–JDP Rwy 27. Class IA. LOC unusable byd 20° right of course.

Chan 52(Y) ILS/DME 111.55 I-SIC Rwy 18C. Class IB. ILS/DME 111.9 I-URN Chan 56 Rwv 09. Class IB.

ILS/DME 109.9 I-CVG Chan 36 Rwy 36C. Class IIIE.

ILS/DME 110.35 I-EEI Chan 40(Y) Rwy 36R. Class IIIF I-CIZ Class IA.

ILS/DME 110.15 Chan 38(Y) Rwy 18L. ILS/DME 110.75 I-VAC Chan 44(Y) Rwy 36L. Class IIIE.

ILS/DME 110.75 I-CJN Chan 44(Y) Rwy 18R. Class IIIF CUBLA N39°21.21′ W83°52.55′. NOTAM FILE ILN.

NDB (MHW/LOM) 299 HW 045° 5.9 NM to Airborne Airpark.

CUYAHOGA CO (See CLEVELAND)

DAHIO TROTWOOD (See Dayton)

DARKE CO (See VERSAILLES)

AIRPORT REMARKS: Attended irregularly. Ultralights on and invof arpt. PAEW N end ramp and N end Twy A Mon-Fri. Arpt

NOTAM FILE DAY.

(I44) 7 W UTC-5(-4DT) N39°45,95′ W84°20,60′

James M. Cox Dayton Intl. 990/1W. HIWAS. DME unusable byd 35 NM blo 2900'.

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DAYTON

DAYTON

DAHIO TROTWOOD

B S5

hon OTS indef

RWY 04-22: H2900X52 (ASPH) RWY 04: Trees.

WEATHER DATA SOURCES: HIWAS 114.5 DON.

N40°00.99′ W84°23.81′

(L) VOR/DME 114.5 DON Chan 92 131° 10.7 NM to

RCO 122.1R 114.5T 122.2 122.55 (DAYTON RADIO)

NOTAM FILE DAY

RWY 22: Trees.

CINCINNATI H-10G, L-27E IAP RWY 20: MALS, VASI(V4L)—GA 3.0° TCH 41', Thid dsplcd 590', Road.

DETROIT

H-10G. L-27E

CINCINNATI

CINCINNATI

CINCINNATI

L-27E

IAP

EC. 23 SEP 2010 to 18 NOV 2010

Rwy 06R-24L: 7285 X 150

Rwy 18-36: 8502 X 150

H-10G I-27F

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IAP. AD

JAMES M COX DAYTON INTL (DAY) 9 N UTC-5(-4DT) N39°54.14′ W84°13.16′ FUEL 100. JET A OX 1 LRA ARFF Index—See Remarks NOTAM FILE DAY 1009 B S4

RWY 06L-24R: H10900X150 (ASPH-CONC-GRVD) S-100, D-210, 2S-175, 2D-583, 2D/2D2-870 HIRL CL

RWY 06L: ALSF2. TDZL.

RWY 24R: MALSR. VASI(V4L)-GA 3.0° TCH 54'. Tree.

RWY 18-36: H8502X150 (ASPH-CONC-GRVD) S-100, D-210.

2S-175, 2D-583, 2D/2D2-870 HIRI

RWY 18: MAISR Trees

RWY 36: REIL. VASI(V4L)-GA 3.0° TCH 46'. Trees.

RWY 06R-24L: H7285X150 (CONC) S-100, D-210, 2S-175,

2D-583, 2D/2D2-870 HIRL

RWY 06R: REIL, PAPI(P4L)—GA 3.0°, TCH 52', Tree.

RWY 24L: MALSR, PAPI(P4L)-GA 3.0°, TCH 51', Pole.

RUNWAY DECLARED DISTANCE INFORMATION:

RWY 06R: TORA-7000 TODA-7000 ASDA-7000

RWY 24L: TORA-7000 TODA-7000 ASDA-7000 LDA-7000 AIRPORT REMARKS: Attended continuously. Deer, coyotes, birds and waterfowl on and invof arpt. First 1400' Rwv 24R concrete. First 1500' of Rwy 18 concrete. Rwy 36 VASI OTS indef. Class I, ARFF Index C. ARFF index E avbl with 24 hrs notice; call arpt operations

Twy C between Twy N and Twy V not avbl for air carrier ops. Twy K, Twy H and Twy J not avbl for group IV and higher acft. Terminal ramp is a non-movement area. Runups

prohibited in Rwy 24L holding area, Flight Notification Service (ADCUS) available.

WEATHER DATA SOURCES: ASOS (937) 454-7845. HIWAS 114.5 DQN. TDWR.

COMMUNICATIONS: ATIS 125.8 UNICOM 122.95 DAYTON RCO 122.1R 114.5T 122.2 122.55 (DAYTON RADIO)

® DAYTON APP/DEP CON 118.85 126.45 (091°−180°) 134.45 (181°−359°) 118.425 (360°−090°) 118.0 126.5

LDA-7000

DAYTON TOWER 119.9 GND CON 121.9 **CLNC DEL** 121.75 AIRSPACE: CLASS C svc continuous ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

DAYTON (L) VOR/DME 114.5 DON Chan 92 N40°00.99' W84°23.81' 2AWIH

BRUNY NDB (LOM) 315 AT N39°50.82′ W84°20.09′ 062° 6.3 NM to fld.

ILS/DMF 108 3 I-DAY Chan 20 Rwv 18.

I-ATD Rwy 06L. LOM BRUNY NDB.

I_FGK Rwy 24L. IIS 110 3

ILS/DME 111.9 I–VUO Chan 56 Rwy 24R. Class IF ASR

MORAINE AIR PARK (173) 4 SW UTC-5(-4DT) N39°40.95′ W84°14.58′

720 FIFE 100LL NOTAM FILE DAY

RWY 08-26: H3500X65 (ASPH) MIRL

RWY 08: Thid dsplcd 558'. Dike. RWY 26: Thid dsplcd 136'. Dike.

AIRPORT REMARKS: Attended dalgt hrs. PAEW adjacent twvs.

WEATHER DATA SOURCES: HIWAS 114.5 DON.

COMMUNICATIONS: CTAF/UNICOM 122.7

DAYTON APP/DEP CON 126.5 (091°-180°)

RADIO AIDS TO NAVIGATION: NOTAM FILE FFO. SPRINGFIELD (T) VORW/DME 113.2 Chan 79 SGH

N39°50.19' 248° 20.6 NM to fld. 1047/4W.



• 3500 X 65

G ^{G G G G G G}

Dike

DARBY DAN (See COLUMBUS)

OHIO DEFIANCE MEM (DFI) 4 NW UTC-5(-4DT)N41°20.25′ W84°25.73′ FUEL 100LL, JET A OX 4 NOTAM FILE DEL 707 R S4

WEATHER DATA SOURCES: ASOS 121,425 (419) 658-2301.

RWY 10-28: H5000X100 (ASPH) S-30, D-55 MIRL RWY 10: REIL, PAPI(P4L)-GA 3.0°, Hill.

DELAWARE MIINI 3 SW UTC-5(-4DT) N40°16.78' W83°06.89' (DLZ) **S4** FUEL 100LL, JET A NOTAM FILE DAY RWY 28: REIL. PAPI(P4L)-GA 3.0°. Trees.

N41°20.07′ W84°25.61′

RWY 12-30: H4197X72 (ASPH) MIRL

RWY 12: REIL. PAPI(P4L). Trees.

COMMUNICATIONS: CTAF/UNICOM 122.7 R TOLEDO APP/DEP CON 134.35

NDB (MHW) 246

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. WATERVILLE (L) VOR/DME 113.1

DFI

234

AIRPORT REMARKS: Attended 1300-2200Z‡. Deer on and invof arpt. Ultralight tfc remain S of Rwy 10-28 at 400' AGL. Rwy 28 PAPI OTS indef. REIL Rwy 10 OTS indef. ACTIVATE MIRL Rwy 10-28-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.025 (740) 362-4416. COMMUNICATIONS: CTAF/UNICOM 122.7 (R) COLUMBUS APP/DEP CON 120.2

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

APPLETON (H) VORTAC 116.7 APE Chan 114 N40°09.06′ W82°35.30′ 294° 25.4 NM to fld. 1350/6W. **2AWIH** NDB (MHW) 215

DLZ N40°16.61' W83°06.22' DEPARTMENT OF TRANSPORTATION HELIPORT

DESHLER MUNI LANDING STRIP (6D7) NOTAM FILE CLE RWY 09-27: 2480X70 (TURF)

RWY 09: Thid dsplcd 740'. Trees. RWY 05-23: 1725X60 (TURF)

RWY 05: Thid dspicd 410'. Bidg.

COMMUNICATIONS: CTAF 122.9

DON SCOTT N40°04.82′ W83°04.73′ DRYER N41°21.48′ W82°09.72′ (H) VOR/DME 113.6 DJB Chan 83

NOTAM FILE CLE VOR unusable 225°-245° byd 20 NM blo 3500'. RCO 122.1R 113.6T (CLEVELAND RADIO)

AIRPORT REMARKS: Unattended. Birds and deer on and invof arpt. Rwy 05-23 dsplcd thlds marked with yellow cones. Rwy 09 dsplcd thld marked with cones. NOTAM FILE OSU. at Ohio State University, Unmonitored when twr clsd, SHUTDOWN,

2 NE

EC. 23 SEP 2010 to 18 NOV 2010

RWY 27: Trees. RWY 23: Thid dspicd 90'. Fence.

226° 1.1 NM to Lorain Co Rgnl. 780/5W.

RWY 30: REIL. VASI(NSTD). Trees. AIRPORT REMARKS: Attended Mon-Fri 1300-2300Z‡, Sat 1300-2200Z‡, Sun 1700-2200Z‡. Deer on and invof arpt. Rwy 30 single box VASI left side of rwy. Rwy 12-30 parallel twy rstd to 5,000 lbs max gross weight. MIRL Rwy

VWV Chan 78 N41°27.09' W83°38.32'

at fld. NOTAM FILE DFI.

12-30 preset low ints; to increase ints and ACTIVATE REILS Rwy 02 and Rwy 30-CTAF.

at fld. (See COLUMBUS) UTC-5(-4DT) N41°12.95′ W83°52.46′

HIWAS.

261° 36.3 NM to fld. 660/2W.

H-10G, L-29A ΙΔΡ

DETROIT

DETROIT

DETROIT

1-281

IAP

DETROIT 1-29A DETROIT H-10G, L-30G

EAST LIVERPOOL

COLUMBIANA CO 4 NW UTC-5(-4DT) N40°40.40′ W80°38.49′ (Ø2G) S3 FUEL 100LL NOTAM FILE CLE

RWY 07-25: H3503X75 (ASPH) S-12.5 MIRL

RWY 25: REIL. PAPI(P4L)-GA 3.0° TCH 26'. Trees.

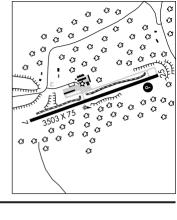
AIRPORT REMARKS: Attended 1300Z‡-dusk. Arpt unattended all major holidays. PAEW between twy and rwy. PAEW invof twy and ramp.

Twy marked with reflectors, ACTIVATE MIRL Rwy 07-25, PAPI Rwy 25 and REIL Rwv 25-CTAF. COMMUNICATIONS: CTAF/UNICOM 123.0.

(See TORONTO)

R PITTSBURGH APP/DEP CON 124.75 RADIO AIDS TO NAVIGATION: NOTAM FILE AOO. ELLWOOD CITY (H) VORTAC 115.8 EWC Chan 105 N40°49.51' W80°12.69' 253° 21.6 NM to fld.

1227/08W. VOR unusable 090°-140° and 310°-335°



DETROIT

DETROIT

L-29B

IAP

ELLIOTTS LANDING (See MOUNT VICTORY)

EDDIE DEW MEML AIRPARK

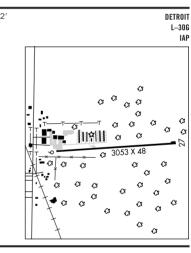
ELYRIA (1G1) 2 S UTC-5(-4DT)

N41°19.89′ W82°06.02′ 758 FUEL 100LL NOTAM FILE CLE

LIRL RWY 09-27: H3053X48 (ASPH) RWY 09: Tree. RWY 27: Tree. AIRPORT REMARKS: Unattended. Fuel avbl 24 hrs with credit card.

COMMUNICATIONS: CTAF/UNICOM 122.8 R CLEVELAND APP/DEP CON 126.35 **CLNC DEL** 125.7 RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

DRYER (H) VOR/DME 113.6 DJB Chan 83 N41°21.48' W82°09.72' 125° 3.2 NM to fld. 780/5W. HIWAS COMM/NAV/WEATHER REMARKS: For IFR clearance ctc Cleveland apch control at 216-898-2040.



FAIRFIELD CO (See LANCASTER)

FAYETTE CO (See WASHINGTON COURT HOUSE)

FETCH N41°12.03′ W80°35.77′ NOTAM FILE YNG.

NDB (LOM) 338 YN

322° 5.1 NM to Youngstown-Warren Rgnl. Unmonitored. LOM unusable byd 10 NM.

EC. 23 SEP 2010 to 18 NOV 2010

FINDLAY (FDY) 1 SW UTC-5(-4DT) N41°00.72′ W83°40.12′ B FUEL 100LL, JET A NOTAM FILE FDY RWY 18-36: H6498X100 (ASPH) S-100, D-160, 2S-175, 2D-280 HIRI RWY 18: REIL. PAPI(P4L)-GA 3.0°TCH 31'. RWY 36: REIL, PAPI(P4L)—GA 3.5°TCH 55', Trees. RWY 07-25: H5883X100(ASPH) S-100, D-160, 2S-175,

RWY 07: REIL. PAPI(P4L)—GA 3.0°TCH 39'. Thid dsplcd 324'.

RWY 25: REIL. PAPI(P4L)—GA 3.5°TCH 36'. Thid dsplcd 999'. Road. RUNWAY DECLARED DISTANCE INFORMATION

RWY 07: TORA-5251 TODA-5251 ASDA-4881

TORA-5786 TODA-5786 ASDA-5558 LDA-4558

AIRPORT REMARKS: Attended Sep-May Mon-Fri 1200-0100Z‡, Jun-Aug Mon-Fri 1200-0200Z‡, Sat-Sun 1400-2300Z‡. Rwy 07-25 sfc has cracks and loose aggregate. ACTIVATE HIRL Rwy 07-25 and

Rwy 18-36; REIL Rwy 07, Rwy 25, Rwy 18 and Rwy 36-CTAF. PAPI Rwy 07, Rwy 18, Rwy 25, and Rwy 36 opr 24 hrs. Ldg fee.

WEATHER DATA SOURCES: ASOS 124.425 (419) 427-8524. COMMUNICATIONS: CTAF/UNICOM 122.725

RCO 122.1R 108.2T (CLEVELAND RADIO) RCO 122.65 122.2

(CLEVELAND RADIO) (R) TOLEDO APP/DEP CON 120.8

RADIO AIDS TO NAVIGATION: NOTAM FILE FDY.

(FZI)

FOSTORIA METRO

B S4

(L) VORTAC 108.2 FDY Chan 19 N40°57.32′ W83°45.36′ 051° 5.2 NM to fld. 820/2W.

MARATHON (T) VORW 114.9 MAH N41°00.89' W83°39.86' at fld. Unmonitored. BENTON RIDGE NDB (MHW) 334 BNR N41°01.27′ W83°40.15′ at fld. Unmonitored.

FUEL 100LL, JET A NOTAM FILE CLE

RWY 09-27: H5005X100 (ASPH) S-30, D-35, 2D-52 MIRL RWY 09: REIL. PAPI(P4L)—GA 3.0° TCH 25'. Trees.

2 NE

RWY 27: REIL. PAPI(P4L)-GA 3.0° TCH 25'. Road. AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z‡. FBO ops Mon-Sat 1200-2100Z‡. PAPI Rwys 09 and 27 on low

UTC-5(-4DT) N41°11.45′ W83°23.59′

ints 24 hrs. To increase ints to high click 122.7 seven times. ACTIVATE MIRL Rwy 09-27 and REIL Rwys 09 and

RWY 27: Trees.

27-CTAF, Rwv 09 REIL OTS indef. Twy lgts intermittent. WEATHER DATA SOURCES: AWOS-3 124.625 (419) 436-0053.

COMMUNICATIONS: CTAF/UNICOM 122.7

FINDLAY RCO 122.1R 108.2T (CLEVELAND RADIO)

R TOLEDO APP/DEP CON 126.1 RADIO AIDS TO NAVIGATION: NOTAM FILE FDY.

FINDLAY (L) VORTAC 108.2 FDY Chan 19 N40°57.32′ W83°45.36′ 051° 21.7 NM to fld. 820/2W. NDB (MHW) 379 FZI N41°11.36′ W83°23.83′ at fld. NOTAM FILE CLE.

FREMONT

FREMONT (14G)

2 SW UTC-5(-4DT) N41°19.99' W83°09.67'

S4 FUEL 80, 100LL NOTAM FILE CLE

RWY 09-27: H4137X60 (ASPH) S-13 LIRL RWY 09: REIL. VASI(NSTD). Thid dspicd 126'. Road. RWY 18-36: 2238X130 (TURF)

RWY 18: Trees. RWY 36: P-line. AIRPORT REMARKS: Attended Mon-Sat 1300Z‡-2200Z‡, Sun 1700Z‡-2200Z‡. For fuel after hrs call 419-332-8037.

ACTIVATE LIRL Rwy 09-27; REIL Rwy 09 and rotating bcn—CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8

R TOLEDO APP/DEP CON 126.1

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. WATERVILLE (L) VOR/DME 113.1 VWV Chan 78 N41°27.09′ W83°38.32′ 110° 22.7 NM to fld. 660/2W.

ΙΔΡ Residential Area (0) 03 03 **(3** €3 C3 C3 €3 03 03 Č C 36

DETROIT

DETROIT

DETROIT

L-28J

IAP

ΙΔΡ

H-11A, L-28J, 29A

H-10G, L-28J

SANDUSKY CO RGNL (S24) 5 SE UTC-5(-4DT) N41°17.74′ W83°02.23′ B S2 FUEL 100LL, JET A OX 2 NOTAM FILE CLE 665

AIRPORT REMARKS: Attended 1200-2300Z‡. After hrs call 419-547-0131 or 419-360-3610. Birds and deer on and invof arpt. ACTIVATE MIRL Rwy 06-24-CTAF. Ldg fee for light twin acft 4500 pounds and larger.

MIRI

FULER N40°04.42′ W83°11.89′ NOTAM FILE OSU. NDB (MHW/LOM) 515 OS 091° 5.8 NM to Ohio State University.

S-30

RWY 06: REIL. PAPI(P4L)—GA 3.0° TCH 44'. Tree.

WEATHER DATA SOURCES: AWOS-3 119.575 (419) 547-6932.

R MANSFIELD APP/DEP CON 127.35 (360°-180°) 1100-0400Z‡ R CLEVELAND CENTER APP/DEP CON 127.9 (360°-180°) 0400-1100Z‡

RWY 06-24: H5500X100 (ASPH)

COMMUNICATIONS: CTAF/UNICOM 123 05

R TOLEDO APP/DEP CON 126.1 (180°-360°) RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

(L) VOR/DME 109.2 SKY Chan 29 N41°26.07′ W82°39.29′ 248° 19.2 NM to fld.

FULTON CO (See WAUSEON) (GOO) 3 NE UTC-5(-4DT) N40°45.20′ W82°43.43′

GALION MUNI B S4 FUEL 100LL NOTAM FILE CLE RWY 05-23: H3505X75 (ASPH) S-12 MIRI RWY 05: REIL. PAPI(P4L)—GA 3.0° TCH 33'. Thid dsplcd 188'. P-line.

RWY 23: REIL. VASI(V2L)-GA 3.0° TCH 26'. Trees. AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡. Student training activity. Fuel self service-24 hrs with credit card, Rwy 23 VASI OTS indef, ACTIVATE MIRL Rwy 05-23; VASI and REIL Rwy 23; REIL Rwy 05 2300-1100Z‡-CTAF. ACTIVATE PAPI Rwy 05-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8 MANSFIELD RCO 122.6 122.1R 108.8T (CLEVELAND RADIO) (R) MANSFIELD APP/DEP CON 124.2 (1100-0400Z‡) **CLNC DEL** 126.8 CLEVELAND CENTER APP/DEP CON 134.9 (0400-1100Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE MFD.

MANSFIELD (L) VORTAC 108.8 MED Chan 25 N40°52.12′ W82°35.46′ 224° 9.2 NM to fld. 1210/3W. GALLIA-MEIGS RGNL (See GALLIPOLIS)

GALLIPOLIS N38°50.01′ W82°09.69′ NOTAM FILE DAY.

NDB (MHW) 420 GAS at Gallia-Meigs Rgnl. VFR only. RCO 121.65 (DAYTON RADIO)

GALLIPOLIS

GALLIA-MEIGS RGNL (GAS)

2 NE UTC-5(-4DT) N38°50.05′ W82°09.81′ S2 FUEL 100LL, JET A1+ NOTAM FILE DAY RWY 05-23: H3998X75 (ASPH) S-30

RWY 05: PAPI(P2L)-GA 3.0° TCH 40', Fence.

AIRPORT REMARKS: Attended 1400-2200Z‡. FBO CLOSED Thanksgiving, Christmas and New Years Day. Deer and birds on and invof arpt. Rwy 23 REIL OTS indef. ACTIVATE MIRL Rwy 05-23; PAPI Rwys 05 and 23, REIL Rwy 23—CTAF WEATHER DATA SOURCES: AWOS-3 119.925 (740) 446-2149.

COMMUNICATIONS: CTAF/UNICOM 123.0 R HUNTINGTON APP/DEP CON 128.4 CLNC DEL 124.55 RADIO AIDS TO NAVIGATION: NOTAM FILE EKN. HENDERSON (H) VORTAC 115.9 HNN

GALLIPOLIS NDB (MHW) 420 GAS N38°50.01′ W82°09.69′ at fld. NOTAM FILE DAY. VFR only.

GARRETTSVILLE (7D8) 4 N NOTAM FILE CLE

RWY 08-26: 2800X100 (TURF-GRVL)

UTC-5(-4DT) N41°21.07′ W81°05.97′ RWY 26: Trees. RWY 08: Fence

AIRPORT REMARKS: Attended Apr-Nov dalgt hrs. Ldg PPR only Dec thru Mar call 216-548-4511. Parachute Jumping. Rwy drops 10' on E end. Rwy 26 has 16' hill/brush starting 0' from rwy apch end. COMMUNICATIONS: CTAF 122.9 GATES (See GARRETTSVILLE)

Chan 106 N38°45.25′ W82°01.57′ 310° 8 NM to fld. 880/03W.

RWY 23: REIL, PAPI(P2L)—GA 3.0° TCH 40', Brush.

DETROIT

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DETROIT

DETROIT

DETROIT

CINCINNATI

CINCINNATI

L-26H IAP

L-29A

IAP

L-29A

ΙΔΡ

H-10G, L-28J

RWY 24: REIL. PAPI(P4L)-GA 3.0° TCH 42'.

Not insp.

OHIO GEAUGA CO (See MIDDLEFIELD) **GFNFVA** GERMACK (7D9) 3 SE UTC-5(-4DT) N41°46.67' W80°54.24' 820 NOTAM FILE CLE RWY 01-19: H3250X28 (ASPH) LIRL (NSTD) RWY 01. Tree RWY 19: Trees. AIRPORT REMARKS: Unattended. Deer on and invof arpt. Radio controlled model acft activity on and invof arpt. No line of sight between rwy ends. Rwy 01-09 rolling sfc. Rwy 01-19 LIRL spacing nstd. ACTIVATE NSTD LIRL Rwy 01-19-CTAF. COMMUNICATIONS: CTAF 122.9 RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. JEFFERSON (L) VOR/DME 115.2 JFN Chan 99 N41°45.61' W80°44.89' 284° 7.1 NM to fld. 900/5W. **GFORGFTOWN BROWN CO** 1 NE UTC-5(-4DT) N38°52.92′ W83°52.97′ (GEO) NOTAM FILE DAY 958 FUEL 100LL RWY 18-36: H3530X65 (ASPH) MIRI RWY 18. Road RWY 36: Road. AIRPORT REMARKS: Unattended. For airframe and powerplant repairs phone 937-379-1055. Self service fuel avbl 24 hrs with credit card. Aerobatic practice surface to 4500' AGL above Rwy 18-36. ACTIVATE MIRL Rwy 18-36-CTAF COMMUNICATIONS: CTAF 122.9 R INDIANAPOLIS CENTER APP/DEP CON 135.575 RADIO AIDS TO NAVIGATION: NOTAM FILE LOU. FALMOUTH (H) VOR/DME 117.0 FI M Chan 117 N38°38.97' W84°18.64' 059° 24.4 NM to fld. 810/4W. **GERMACK** (See GENEVA) **GRAND LAKE ST MARYS SPB** (See ST MARYS) GREATER PORTSMOUTH RGNL (See PORTSMOUTH) GREENE CO-LEWIS A JACKSON RGNL (See DAYTON) **GRFFN SPRINGS** WEIKER (82D) 2 SE UTC-5(-4DT) N41°13.75′ W83°01.74′ S4 NOTAM FILE CLE RWY 18-36: 1785X90 (TURF) RWY 18: Trees. RWY 36: Trees. AIRPORT REMARKS: Attended irregularly. Radio controlled model flying activity on weekends. Rwy 18-36 marked with +3' orange barrels on rwy ends only; Rwy 18 first 132' has no markers. COMMUNICATIONS: CTAF 122.9 GRENS N40°00.61′ W83°01.74′ NOTAM FILE CMH. NDB (MHW) 272 102° 6.4 NM to Port Columbus Intl. OTS indef. CHC GRIFFING-SANDUSKY (See SANDUSKY) **GRIMES FLD** (See URBANA) **HAMILTON** N39°22.37′ W84°34.33′ NOTAM FILE DAY. NDB (MHW) 260 HAO 107° 2.4 NM to Butler Co Rgnl. EC. 23 SEP 2010 to 18 NOV 2010

DETROIT

CINCINNATI

L-26G, 27E

DETROIT

CINCINNATI

CINCINNATI

L-27E

L-29E

IAP

L-30G

238

EC. 23 SEP 2010 to 18 NOV 2010

240 OHIO HOGAF N41°34.45′ W81°28.27′ NOTAM FILE CGF. DETROIT NDB (LMM) 521 GF at Cuyahoga Co. SHUTDOWN. HOLLISTER FIFLD (See WILMINGTON) HOLMES CO (See MILLERSBURG) HOOK FLD N39°29.93′ W84°26.85′ NOTAM FILE DAY. CINCINNATI NDB (MHW) 239 HKF 054° 3.1 NM to Middletown Rgnl/Hook Fld. NDB OTS indef. L-27E HUBBARD N41°09.17′ W80°31.89′ NOTAM FILE CLE. DETROIT NDB (MHW) 408 HBD 259° 4.2 NM to Lansdowne. L-30H HURON HINDE (88D) 3 NW UTC-5(-4DT) N41°24.22′ W82°36.08′ DETROIT NOTAM FILE CLE RWY 11-29: 2500X70 (TURF) RWY 11. Road RWY 29: Brush. AIRPORT REMARKS: Unattended. Arpt CLOSED at ngt. Rwy soft when wet. COMMUNICATIONS: CTAF 122.9 JACKSON JAMES A RHODES (I43) 5 SE UTC-5(-4DT) N38°58.88' W82°34.67' CINCINNATI 726 B S4 FUEL 100LL, JET A1+ NOTAM FILE DAY H-10G, L-29A RWY 01-19: H5201X75 (ASPH) MIRL IAP RWY 01: Thid dspicd 331'. Tree. €3 1161 €3 RWY 19: REIL. VASI(S2L). Trees. Œ ß AIRPORT REMARKS: Attended Mon-Fri 1300-1800Z±. MIRL Rwv 01-19 preset low ints dusk-dawn, to increase ints and ACTIVATE-CTAF. Rwv 19 REIL OTS indef. 13 3 WEATHER DATA SOURCES: AWOS-3 118,825 (740) 286-1760. Cultivated G G COMMUNICATIONS: CTAF/UNICOM 122.7 R HUNTINGTON APP/DEP CON 128.4 a €3 RADIO AIDS TO NAVIGATION: NOTAM FILE EKN. Ø C3 C3 HENDERSON (H) VORTAC 115.9 HNN Chan 106 N38°45.25' W82°01.57' 301° 29.2 NM to fld. 880/03W. C3 €3 Œ Œ Ø ß ß JAMES A RHODES (See JACKSON) JAMES M COX DAYTON INTL (See DAYTON) **JAMESTOWN** BL00M (141) 2 SW UTC-5(-4DT) N39°38.00′ W83°45.00′ CINCINNATI 1050 TPA—1850(800) NOTAM FILE DAY RWY 06-24: 1220X80 (TURF) RWY 06: Pole. RWY 24: Pole. AIRPORT REMARKS: Unattended. COMMUNICATIONS: CTAF 122.9 JEFFERSON CO AIRPARK (See STEUBENVILLE) JEFFERSON N41°45.61′ W80°44.89′ NOTAM FILE CLE. DETROIT L-30G (L) VOR/DME 115.2 JFN Chan 99 070° 2.6 NM to Ashtabula Co. 900/5W. DME unusable: 085°-125° byd 35 NM blo 3500' 191°-230° 126°-190° byd 20 NM blo 3500' 231°-260° byd 30 NM blo 3500′ RCO 122.1R 115.2T (CLEVELAND RADIO)

DETROIT

DETROIT L-27E

DETROIT

IAP

KELLEYS ISLAND LAND FLD (89D) 1 NE UTC-5(-4DT) N41°36.17′ W82°41.08′ NOTAM FILE CLE 598 RWY 18-36: H2270X35 (ASPH) LIRI

RWY 36: Trees.

RWY 09-27: H2203X50 (ASPH) RWY 27: Tree. RWY 09: Trees. AIRPORT REMARKS: Unattended, Rwy 18-36 CLOSED indef, Rwy 09-27 payement poor—weathered with cracks, Ldg

fee COMMINICATIONS: CTAF 122 9

RWY 18: Bldg.

KENT STATE UNIV (1G3) 3 W UTC-5(-4DT) N41°09.08' W81°24.91' DETROIT B S4 FUEL 100LL, JET A1+ TPA-1984(850) NOTAM FILE CLE L-30G

RWY 01-19: H4000X60 (ASPH) MIRL 0.4% up N IAP RWY 01: REIL. VASI(V4L)—GA 3.5° TCH 42'. Thid dsplcd 49'. Trees. RWY 19: REIL. VASI(V4L)-GA 3.0° TCH 35'. Trees. T-61 03 00 00 AIRPORT REMARKS: Attended Mon-Fri 1130Z‡-dusk, Sat-Sun €3 O C3 1300Z±-dusk, Self syc fuel avbl. Self syc fuel OTS indef, Ramp fee for multi-engine and turbine powered acft-waived with fuel a purchase. Deer on and invof arpt. For noise abatement a €3 a Δ æ

procedures ctc arpt manager on 330-672-1943. ACTIVATE MIRL Rwy 01-19; VASI and REIL Rwy 01 and Rwy 19-122.9. Rwy 01 N 8 **(3** and Rwy 19 REIL OTS indef. Œ Œ COMMUNICATIONS: CTAF/UNICOM 122.725 (3 C3 C3 €3 **CLNC DEL** 125.65 €3 C3 C3 ß ୍ଦ ଓ ଓ

ପ୍ର ପ୍ରସ R AKRON-CANTON APP/DEP CON 118.6 (1100-0500Z‡) R CLEVELAND CENTER APP/DEP CON 120.775 (0500-1100Z‡) €3 €3 03 03 RADIO AIDS TO NAVIGATION: NOTAM FILE CAK. C3 C3 G G €3 AKRON (L) VOR/DME 114.4 ACO Chan 91 N41°06.47' C3 C3 289° 10 NM to fld. 1194/4W. €3 €3 O O AKRON NDR (MHW/LOM) 362 AK N41°04.19′ W81°23.25′ 353° Œ 63 M G G G 5.1 NM to fld. NOTAM FILE CLE. 63

KENTON

HARDIN CO 3 SW UTC-5(-4DT) N40°36.61′ W83°38.66′ (195)S4 FUEL 100LL, JET A1+ TPA-2022(1000) NOTAM FILE DAY

RWY 04-22: H4797X75 (ASPH) S-19 MIRL 0.5% up SW RWY 22: Road.

AIRPORT REMARKS: Attended Sat-Sun 1400-2000Z‡, May-Oct Mon-Fri 1300-0100Z‡, Nov-Apr Mon-Fri 1400-2300Z‡. Birds on and invof arpt. ACTIVATE MIRL Rwy 04-22-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8 INDIANAPOLIS CENTER APP/DEP CON 128.075

RADIO AIDS TO NAVIGATION: NOTAM FILE FDY. FINDLAY (I.) VORTAC 108 2 FDY

Chan 19 N40°57.32′ W83°45.36′ 168° 21.3 NM to fld. 820/2W. ALLEN CO (T) VOR 108.4 AOH N40°42.43' W83°58.09' 115° 15.9 NM to fld. NOTAM FILE DAY. VOR portion unusable 091°-109° byd 20 NM.

KNOX CO (See MOUNT VERNON)

KOONS (See SALEM)

LAGRANGE (92D) 2 S UTC-5(-4DT) N41°12.17′ W82°06.91′ TPA-1843(1000) NOTAM FILE CLE

RWY 09-27: 2670X95 (TURF)

RWY 09: P-line. RWY 27: Trees

and Rwy 27 ends. Rwy 18-36 marked with white tires.

RWY 18-36: 1410X95 (TURF)

RWY 36: Trees. AIRPORT REMARKS: Attended irregularly. Arpt occasionally CLOSED for radio controlled model flying. Reg blind call on

122.9 at arrival and departure as safety procedure. Rwy 09-27 and Rwy 18-36 soft when wet during spring or after heavy rains, ctc arpt manager for rwy condition 440-610-6013. Rwy 36 has no line of sight with Rwy 09

LAKEFIELD (See CELINA)

COMMUNICATIONS: CTAF 122.9

EC. 23 SEP 2010 to 18 NOV 2010

UHIU 242

LAKELAND N41°40.94′ W81°22.74′ NOTAM FILE CLE NDB (MHW) 263 LOL at Willoughby Lost Nation Muni. NDB unmonitored.

LANCASTER

FAIRFIELD CO (LHQ) 3 NW UTC-5(-4DT) N39°45.34′ W82°39.43′ S4 FUEL 100LL, JET A1 + NOTAM FILE LHO

RWY 10–28: H5004X75 (ASPH) S–25.5, D–38.5 HIRI RWY 10: REIL. PAPI(P4L)-GA 3.0°. Trees.

RWY 28: REIL, PAPI(P4L)—GA 3.0°, Thid dsplcd 279', Road.

AIRPORT REMARKS: Attended 1300Z‡-dark. Arpt unattended Christmas, New Years and Thanksgiving. Fuel available

24 hrs with credit card. Run up area N end Rwy 28 closed permanently. Rwy 28 calm wind preferred rwy. ACTIVATE HIRL Rwy 10-28 and REILS Rwy 10 and Rwy 28-122.725. PAPI Rwy 10 and Rwy 28 operates 24

WEATHER DATA SOURCES: ASOS 118.375 (740) 681-1097. COMMUNICATIONS: CTAF/UNICOM 122.725

APPLETON RCO 122.1R 116.7T (DAYTON RADIO)

(R) COLUMBUS APP/DEP CON 132.3 CINC DEL 121 65

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

APPLETON (H) VORTAC 116.7 APE Chan 114 N40°09.07′ W82°35.30′ 194° 23.9 NM to fld. 1360/6W.

CASER NDB (LOM) 338 LH N39°44.93′ W82°32.12′ ILS 111.9 I-LHO

280° 5.7 NM to fld. Unmonitored. Rwy 28. LOM CASER NDB. LOC only, LOM unmonitored, LOC unmonitored.

N39°25.78'

LANSDOWNE (See YOUNGSTOWN)

LAWRENCE CO AIRPARK (See CHESAPEAKE-HUNTINGTON WVA)

LEBANON-WARREN CO

UTC-5(-4DT) (168) 3 NW S4 FUEL 100LL, JET A OX 1 NOTAM FILE DAY

RWY 01-19: H4502X65 (ASPH) RWY MIRL (NSTD) 0.3% up N RWY 01: REIL. PAPI(P4R). Thid dsplcd 630'. P-line. Rgt tfc.

RWY 19: REIL. PAPI(P4L). Thid dsplcd 410' (dalgt). Trees. AIRPORT REMARKS: Attended 1230-0300Z‡. PAEW adjacent rwy and twy indef. NSTD MIRL Rwy 01-19, not located at correct place

at 363' mark is Igtd for night ops. Rwy 19 PAPI OTS indef. Rwy 01 REIL OTS indef. ACTIVATE MIRL Rwy 01-19-123.075.

WEATHER DATA SOURCES: AWOS-3 120.55 (513) 934-5500.

COMMUNICATIONS: CTAF/UNICOM 123.075 R DAYTON APP CON 126.5 (091°-180°) 118.85 127.225

R DAYTON DEP CON 126.5 (091°-180°)

DAYTON CLNC DEL 119.4 (937) 454-7282

RADIO AIDS TO NAVIGATION: NOTAM FILE FFO.

MIDWEST (T) VORW/DME 112.9 MXO Chan 76

W83°48.07' 279° 21 NM to fld 1050/4W.

ONIDA NDB (LOM) 223 MW N39°34.69′ W84°19.42′ NM to fld. NOTAM FILE DAY. Unmonitored.

N39°27.73′ W84°15.11′ CINCINNATI L-27E IAP 61 *(*3 **(3** Œ ß €3 adjacent to dsplcd thid markings. Rwy 19 dsplcd thid not lgtd. Rwy 01 dsplcd thid at the 630' mark is not lgtd. The former dsplcd thid €3 *(*3

DETROIT

1-306

IAD

CINCINNATI

H-10G, L-29A

LEIPSIC

RUHE'S (R47) 3W UTC-5(-4DT) N41°06.19' W84°03.11' 801 S4 NOTAM FILE CLE

RWY 09-27: H4455X65 (ASPH) LIRL (NSTD)

RWY 27: Antenna. RWY No. Railroad

AIRPORT REMARKS: Attended dalgt hrs. Field primary for

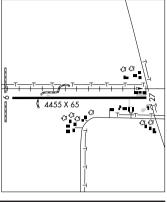
dusting/spraying ops. Most tkfs to W; Idgs E; no tfc pattern for

agriculture planes. For LIRL Rwy 09-27 call 419-943-3352. Rwy side offset 20'.

09-27 NSTD LIRL. Thid lgtd with 360° green lgts and Rwy lgts S COMMUNICATIONS: CTAF/UNICOM 123.0 RADIO AIDS TO NAVIGATION: NOTAM FILE FDY.

FINDLAY (L) VORTAC 108.2 FDY Chan 19 N40°57.32'

W83°45.36' 306° 16.1 NM to fld. 820/2W.



v)6000 X 150

C3C3

DETROIT

DETROIT

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H-10G. L-27E

03 03

C3 C3

L-28J

LIMA ALLEN CO (AOH) 5 SE UTC-5(-4DT) N40°42.45′ W84°01.62′ FUEL 100LL, JET A1 + OX 1 NOTAM FILE AOH

wide. PAPI Rwy 10 and Rwy 28 opr continuously. ACTIVATE HIRL

RWY 10-28: H6000X150 (ASPH) D-60 HIRI 0.5% up E. RWY 10: PAPI(P4L)-GA 3.0° TCH 46'. Tree.

RWY 28: REIL. PAPI(P4R)-GA 3.0° TCH 46'. RWY 14-32: 2500X150 (ASPH-TURF)

RWY 14: Pole. RWY 32: Tree. AIRPORT REMARKS: Attended Mon-Thr 1100-0100Z±, Fri

1100-2300Z‡, Sat 1400-2000Z‡, Sun 1600-2000Z‡. Rwy 14-32 CLOSED winters. Rwy 14-32 first 600' Rwy 32 paved 150'

Rwy 10-28 and REIL Rwy 28-CTAF. WEATHER DATA SOURCES: ASOS 108.4 AOH (419) 224-6098. COMMUNICATIONS: CTAF/UNICOM 122.7

ALLEN CO RCO 122.1R 108.4T (DAYTON RADIO)

NDB (MHW) 263 UYF at Madison Co.

INDIANAPOLIS CENTER APP/DEP CON 128.075 RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

FINDLAY (L) VORTAC 108.2 FDY Chan 19 N40°57.32'

222° 19.3 NM to fld. 820/2W. W83°45.36' NOTAM FILE FDY.

ALLEN CO (T) VOR 108.4 AOH N40°42.43′ W83°58.09′

2.7 NM to fld. ASOS. VOR portion unusable 091°-109° byd 20 NM.

NDB (MHW) 362 LYL N40°42.27′ W84°01.40′ at fld. Unmonitored. SHUTDOWN. ILS 109.3 I-AOH Rwv 28. Class 1E. LOC unusable byd 25° left side of course. ILS unmonitored.

LONDON N39°55.89′ W83°27.84′ NOTAM FILE DAY.

274°

CINCINNATI L-29A

RWY 09: REIL. PAPI(P4L)-TCH 31'.

IUNDUN MADISON CO N39°55.96′ W83°27.72′ (UYF) 3N UTC-5(-4DT)

S4 FUEL 100LL, JET A1+ NOTAM FILE DAY RWY 09-27: H4001X75 (ASPH) S-30, D-40 MIRL 0.8% up W

RWY 27: REIL. PAPI(P4L)-TCH 31'. Trees. AIRPORT REMARKS: Attended Mon-Fri 1300-2100Z±. Sat-Sun 1400-2200Z‡. 24 hr self svc fuel after hrs. ACTIVATE MIRL Rwy 09-27 and PAPI and REIL Rwys 09 and 27-CTAF. COMMUNICATIONS: CTAF/UNICOM 123.0

R DAYTON APP CON 126.5 (091°-180°) 118.85 127.225 R DAYTON DEP CON 126.5 (091°-180°) RADIO AIDS TO NAVIGATION: NOTAM FILE FFO.

SPRINGFIELD (T) VORW/DME 113.2 SGH

W83°50.70' 076° 18.6 NM to fld. 1047/4W. LONDON NDB (MHW) 263 UYF N39°55.89' W83°27.84'

Chan 79 N39°50.19'

at fld.

4001 X 75

LORAIN CO RGNL (See LORAIN/ELYRIA)

I ORAIN (FI YRIA)

NOTAM FILE DAY.

LORAIN CO RGNL (LPR) 6 S UTC-5(-4DT) N41°20.66′ W82°10.66′ 793 R S4 FUEL 100LL, JET A TPA-1793(1000) NOTAM FILE LPR RWY 07-25: H5002X100 (ASPH-GRVD) S-80, D-110, 2S-175, 2D-180

RWY 07: MALSR. PAPI(P4L)-GA 3.0° TCH 54'. RWY 25: REIL, PAPI(P4L)-GA 3.0° TCH 40', Trees, Rgt tfc. AIRPORT REMARKS: Special Air Traffic Rules-Part 93, see Regulatory Notices, Attended Mon-Fri 1200-0400Z±, Sat-Sun 1200-0300Z‡. Birds; coyotes and deer on and invof arpt. Pilots

opr in Oberlin area req to avoid and remain well clear of Oberlin College due to music conservatory. All tfc ops N of arpt as per FAR Part 93, Subpart J. HIRL Rwy 07-25 preset low ints, to increase ints and ACTIVATE MALSR Rwy 07-CTAF. WEATHER DATA SOURCES: ASOS 121.425 (440) 323-7088. COMMUNICATIONS: CTAF/UNICOM 122.7

(R) CLEVELAND APP/DEP CON 126.35 **CLNC DEL** 125.7 RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. DRYER (H) VOR/DME 113.6 DJB Chan 83 N41°21.48'

W82°09.72' 226° 1.1 NM to fld. 780/5W. HIWAS. I-LOG Rwv 07. COMM/NAV/WEATHER REMARKS: For IFR clearance ctc Cleveland apch

control at 216-898-2040.

MADISON CO (See LONDON)

NDB (MHW) 379

MAD RIVER INC (See TREMONT CITY)

MADEIRA N39°13.37′ W84°21.32′

MDE

MANNS N40°45.98' W82°26.71' NOTAM FILE MED NDB (MHW/LOM) 372 MF

321° 4.6 NM to Mansfield Lahm Rgnl.

EC. 23 SEP 2010 to 18 NOV 2010

NOTAM FILE LUK.

206° 7.7 NM to Cincinnati Muni Arpt Lunken Fld. Unmonitored when twr clsd.

DETROIT H-10G, L-30G IAP

CINCINNATI

DETROIT

L-29A

L-27E

CINCINNATI

L-29A

IAP

MANSFIELD LAHM RGNL N40°49.29′ W82°31.00′ (MFD) 3 N UTC-5(-4DT) DETROIT S4 FUEL 100LL, JET A Class IV. ARFF Index A NOTAM FILE MFD H-10G I-29A R RWY 14-32: H9001X150 (ASPH-GRVD) S-150, D-185, 2S-175, 2D-300 IAP. AD RWY 14: PAPI(P4L)—GA 3.0° TCH 42'. Road. 0.9% up. RWY 32: MALSR. Trees. 030 RWY 05-23: H6800X150 (ASPH-GRVD) S-90, D-96, 2S-175, O CS 0 2D-150 HIRI a €3 o`c a RWY 05: REIL. PAPI(P4L)-GA 3.0° TCH 50. RWY 23: REIL. PAPI(P4L)-GA 3.0° TCH 45'. Trees. **(3 (3** LAND AND HOLD SHORT OPERATIONS 000 GG GG LANDING HOLD SHORT POINT DIST AVBL €3 RWY 05 14-32 4350 €3 Ø **RWY 14** 05 - 236100 C C C3 RUNWAY DECLARED DISTANCE INFORMATION œĠ Œ RWY N5. TORA-6795 TODA-6795 ASDA-6795 LDA-6795 €3 TORA-9001 TODA-9001 ASDA-9001 LDA-9001 a a a a a a TORA-6795 TODA-6795 ASDA-6795 LDA-6795 RWY 23-0 0 0 0 0 TORA-9001 TODA-9001 ASDA-9001 LDA-9001 RWY 32: AIRPORT REMARKS: Attended 1200-0400Z±. Deer and birds and waterfowl on and invof arpt. Increased deer hazard during fall and winter season. Two hrs PPR for air carrier ops with more than 30 passenger seats call 419-522-2191. Acft on either end of Rwy 05-23 and Rwy 14-32 cannot be seen on the other end due to rwy grade. Acft larger than a "G1" or with a

wing span greater than 80' (tip to tip) are restricted on Twys G/H/J/L/M/N and should use the main ramp area. When twr clsd ACTIVATE HIRL Rwy 05-23 and Rwy 14-32; MALSR Rwy 32; REIL Rwys 05 and 23-CTAF. Rwy 32 RVR avbl. Ldg fees on all commercial oprs invoiced on monthly basis; for other arrangements contact arpt manager on 419-522-2191.

WEATHER DATA SOURCES: ASOS (419) 522-1375. LAWRS.

COMMUNICATIONS: CTAF 119.8 ATIS 125.3 UNICOM 122.95 RCO 122.1R 108.8T (CLEVELAND RADIO) RCO 122.6 (CLEVELAND RADIO)

R APP/DEP CON 124.2 127.35 (1100-0400Z‡) RCLEVELAND CENTER APP/DEP CON 134.9 (0400-1100Z±)

TOWER 119.8 (1100-0400Z±) GND CON 121.8

AIRSPACE: CLASS D svc effective 1100-0400Z‡ other times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE MFD.

Chan 25 N40°52.12′ W82°35.46′ 133° 4.4 NM to fld. 1210/3W. (L) VORTAC 108.8 MFD

MANNS NDB (MHW/LOM) 372 MF N40°45.98′ W82°26.71′ 321° 4.6 NM to fld

I-MFD Rwv 32. Class IA. LOM MANNS NDB. Unmonitored when twr clsd. LOC unusable

from 0.3 NM to thid.

ASR (1100-0400Z‡)

N41°14.30′ W81°15.23′

. . HELIPAD H2: H24X24 (ASPH)

HELIPORT REMARKS: Helipad H2 perimeter lgts.

UTC-5(-4DT)

MANTUA MILLS (7E3) 3 SW

NOTAM FILE CLE RWY 03-21: 2640X60 (TURF)

RWY 21: P-lines. RWY 03. Tree

AIRPORT REMARKS: Unattended. COMMUNICATIONS: CTAF 122.9

MARATHON N41°00.89′ W83°39.86′.

(T) VORW 114.9 MAH at Findlay. Unmonitored.

VOR unusable

340°-067°

085°-135°

079°-130°

079°-130° byd 12 NM

NOTAM FILE FDY.

131°-339° byd 12 NM

068°-078° byd 12 NM

DETROIT

DETROIT

L-28J

EC. 23 SEP 2010 to 18 NOV 2010

MARION MUNI (MNN) 3 NE UTC-5(-4DT) N40°36.98′ W83°03.81′ S4 FUEL 80, 100LL, JET A1 + TPA—1793(800) NOTAM FILE MNN 993 R

RWY 07-25: H5000X100 (ASPH-GRVD) S-70, D-95, 2S-121, 2D-150

RWY 13-31: H3498X100 (ASPH-GRVD) S-56, D-68, 2S-86, 2D-105 MIRL RWY 13: REIL. PAPI(P2L)-GA 3.0° TCH 21'. Trees.

RWY 07: REIL. PAPI(P4L)—GA 3.0° TCH 24'. Road.

RWY 25: REIL. PAPI(P4L)-GA 3.0° TCH 31'. Trees.

RWY 31: REIL. PAPI(P2L)-GA 3.0° TCH 21'. Acft. AIRPORT REMARKS: Attended 1300-2200Z±, Glider activity on and invof arpt. Gliders and towplanes use rgt tfc pattern for Rwy 07 and Rwy 31. Transient acft follow ramp signs to main ramp. Twy D cannot be used to taxi between

rwy and ramp area by acft with wingspan greater than 35'. After 0500Z‡ ACTIVATE MIRL Rwy 07-25 and Rwy

WEATHER DATA SOURCES: ASOS 119.975 (740) 383-3400, SAWRS. COMMUNICATIONS: CTAF/UNICOM 122.8 R MANSFIELD APP/DEP CON 124.2 (1100-0400Z‡) CLNC DEL 126.8 CLEVELAND CENTER APP/DEP CON 135.1 (0400-1100Z±)

13-31; REIL Rwy 07; Rwy 25; Rwy 13 and Rwy 31-CTAF.

RADIO AIDS TO NAVIGATION: NOTAM FILE MFD. MANSFIELD (L) VORTAC 108.8

MFD Chan 25 N40°52.12′ W82°35.46′ 238° 26.3 NM to fld. 1210/3W. BUD N40°37.00′ W83°03.83′ BUCKEYE (T) VORW 109.8 at fld. NOTAM FILE MNN.

MNN N40°37.03′ W83°04.20′ at fld. Unusable byd 15 NM. NOTAM FILE MNN. SHUTDOWN. ILS/DME 110.35 I-AEF Chan 40Y Rwv 25. LOC only.

MARYSVILLE

UNION CO 1 SE UTC-5(-4DT) N40°13.48′ W83°21.10′ DETROIT I-29A

FUEL 100LL, JET A1+ OX 1, 2, 3, 4 1021 B S4 NOTAM FILE DAY S-17 MIRL RWY 09-27: H4218X75 (ASPH) 0.6% up W.

RWY 09: REIL. PAPI(P4L)-GA 4.0° TCH 20'. Tree. RWY 27: REIL. PAPI(P4L)-GA 4.0°TCH 42'. Thid dsplcd 124'. Railroad.

AIRPORT REMARKS: Attended Nov-Apr 1300-2300Z‡, May-Oct 1300-0000Z‡. For svc after hrs call 740-815-5455. 24 hr credit card svc avbl fuel. Deer and birds on and invof arpt. ACTIVATE MIRL, REIL, PAPI Rwv 09-27-CTAF.

Ramp fee for commercial acft

WEATHER DATA SOURCES: AWOS-3 119.275 (937)-644-2967.

COMMUNICATIONS: CTAF/UNICOM 122.8

R COLUMBUS APP/DEP CON 120.2 RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

ROSEWOOD (H) VORTAC 117.5 ROD Chan 122 N40°17.27′ W84°02.59′

COMM/NAV/WEATHER REMARKS: AWOS-3 unusable byd 6 NM.

MAYFIELD (See AKRON)

McARTHUR VINTON CO UTC-5(-4DT) N39°19.69' W82°26.51'

(22I)5 NE FUEL 100LL NOTAM FILE DAY

RWY 09-27: H3725X75 (ASPH) MIRL

RWY 27: PAPI(2PL), Trees. RWY N9. Trees

AIRPORT REMARKS: Attended irregularly. For fuel call 740-357-0268 or

740-596-0002. Occasional deer and geese on and invof arpt.

ACTIVATE MIRL Rwy 09-27-122.9. COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE EKN.

HENDERSON (H) VORTAC 115.9 HNN Chan 106 N38°45.25" W82°01.57' 334° 39.5 NM to fld. 880/3W.

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102° 32 NM to fld. 1080/5W.

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H-10G I-29A

OHIO 247 McCONNFI SVILLE MORGAN CO CINCINNATI (I71) 3 E UTC-5(-4DT) N39°39.26′ W81°48.19′ L-29B

FUEL 100LL TPA-1800(800) NOTAM FILE CLE RWY 12-30: H3500X65 (ASPH) S-12

> RWY 30: REIL. Tree. RWY 12: Thid dspicd 350'. Road. AIRPORT REMARKS: Unattended. For fuel use phone in Administration Building and refer to list above phone. Rwy 12-30 sfc has loose

> > NOTAM FILE CLE

MIRL

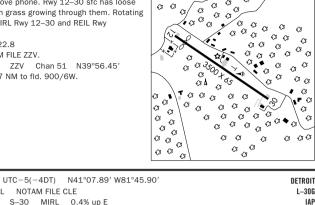
0.4% up E

1 NE UTC-5(-4DT) N41°41.11′ W82°48.29′

EC. 23 SEP 2010 to 18 NOV 2010

S-30

aggregate, large cracks with grass growing through them. Rotating bcn OTS indef. ACTIVATE MIRL Rwv 12-30 and REIL Rwv 30-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8 RADIO AIDS TO NAVIGATION: NOTAM FILE ZZV. ZZV ZANESVILLE (L) VOR/DME 111.4 Chan 51 N39°56 45' W81°53.56' 172° 17.7 NM to fld. 900/6W.



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RWY 09: PAPI (P4L), Trees. RWY 27: REIL. PAPI (P4L)-GA 3.5° TCH 30'. RWY 01-19: H2867X60 (ASPH) S-25 MIRL 0.7% up N RWY 01: PAPI (P4L). P-line. RWY 19: PAPI (P4L), Thid dspicd 737', Trees.

(1G5) 4 E

FUEL 100LL

09. 27. 01 and 19 opr dusk-0300Z±; after 0300Z± ACTIVATE-CTAF. COMMUNICATIONS: CTAF/UNICOM 123.0 (R) CLEVELAND APP/DEP CON 125.35 RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. DRYER (H) VOR/DME 113.6 DIR

METCALF FLD (See TOLEDO) MIAMI UNIVERSITY (See OXFORD)

MIDDLE BASS-EAST POINT (See MIDDLE BASS ISLAND) MIDDLE BASS ISLAND 1 NE UTC-5(-4DT) N41°41.67' W82°47.79'

MEDINA MUNI

B S4 RWY 09-27: H3556X75 (ASPH)

MIDDLE BASS-EAST POINT (3W9) NOTAM FILE CLE RWY 09-27: 2085X67 (TURF)

RWY N9. Berm

MIDDLE BASS ISLAND (3T7)

TPA-1580 (1000) RWY 10-28: H1852X75 (ASPH)

RWY 28: PAPI(P4L). Ground.

COMMUNICATIONS: CTAF/UNICOM 122.8

RWY 27: Trees. Rgt tfc.

AIRPORT REMARKS: Attended May-Oct irregularly, unattended Nov-Apr. Rwy soft and wet in spring. Numerous trees and buildings in close proximity of rwy. Be alert: Expect significant windshear and turbulence on apch and departure when winds exceed 10 Kt speed.

RWY 10: PAPI(P4L). Thid dsplcd 52'. Building. Rgt tfc.

AIRPORT REMARKS: Unattended. All tfc patterns remain S of arpt.

COMMUNICATIONS: CTAF 122.9

AIRPORT REMARKS: Attended 1300Z‡-dusk. Deer on and invof arpt. PAEW twys. Rwy 09-27 has severe cracking with much foreign object damage potential. Rwy 09 PAPI OTS indef. MIRL Rwy 09-27, MIRL Rwy 01-19, PAPI Rwys

Chan 83 N41°21.48′ W82°09.72′ 132° 22.5 NM to fld. 780/5W.

2AWIH

DETROIT

DETROIT

IAP

AIRPORT REMARKS: Unattended. Use care when taxiing on ramp, loose gravel and rough areas. ACTIVATE HIRL Rwy 11-29 and REIL Rwy 11 and Rwy 29-CTAF. Rwy 11 and Rwy 29 TRCV OTS indef. Ultralight ops conduct a close-in 500' AGL rgt hand pattern during dalgt hrs. Parallel twy clsd permanently, E of T-hangars.

CHARDON (H) VOR/DME 112.7 CXR Chan 74 N41°31.02′ W81°09.79′ 137° 6.1 NM to fld. 1310/5W.

RWY 29: REIL. TRCV (TRIL). Trees.

UTC-5(-4DT) N41°26.98' W81°03.78'

FUEL 100LL TPA-2199(1025) NOTAM FILE CLE

RWY 11-29: H3500X65 (ASPH) S-18.5 HIRL 0.5% up W.

RWY 11: REIL. TRCV (TRIR). Thid dsplcd 180'. Tank.

CHARDON RCO 122.1R 112.7T (CLEVELAND RADIO)

DETROIT

CINCINNATI

CINCINNATI

H-10G, L-27E

IAP

H-10G I-27F

L-30G

IAP

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MIDDI FFIFI D GEAUGA CO

1174 R

(7G8) 1 SE

COMMUNICATIONS: CTAF/UNICOM 123.0

R CLEVELAND APP/DEP CON 125.35 RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

RWY 09-27: H3498X65 (ASPH) S-14. D-25 MIRI 1.0% un W IAP RWY 27: REIL. VASI(V2L). RWY NO. REII Pole €3 AIRPORT REMARKS: Attended Mon-Fri 1300-0000Z±. Sat Λž ß 1400-2300Z‡, Sun 1730-2200Z‡, Deer on and invof arpt. Cultivated ACTIVATE MIRL Rwy 09-27 and REIL Rwy 09 and Rwy 27-123.4. WEATHER DATA SOURCES: AWOS-3 128.325 (330) 674-6279. n COMMUNICATIONS: CTAF/UNICOM 123.0 ദേദ R INDIANAPOLIS CENTER APP/DEP CON 124.45 n RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. TIVERTON (L) VOR/DME 116.5 TVT Chan 112 N40°27.48' ~ W82°07.61' 062° 9.2 NM to fld. 1340/3W. 3498 X 65 N €3 €3

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MONROE CO (See WOODSFIELD) MORAINE AIR PARK (See DAYTON)

S4

COMMUNICATIONS: CTAF/UNICOM 122.8

COMMUNICATIONS: CTAF/UNICOM 123.05

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

R COLUMBUS APP/DEP CON 120.2

BUCKEYE (T) VORW 109.8

(R) MANSFIELD APP/DEP CON 124.2 (1100-0400Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE MFD.

WEATHER DATA SOURCES: AWOS-3 126.05 (740) 397-6297.

APPLETON RCO 122.1R 116.7T (DAYTON RADIO)

10-28-CTAF.

(See MANTUA)

(See McCONNELSVILLE)

(See MOUNT GILEAD)

(4I9) 2 SW UTC-5(-4DT) N40°31.47′ W82°51.00′

NOTAM FILE CLE

RWY 10-28: H3497X65 (ASPH) S-3

MIRL

0.3% up E RWY 28: SAVASI(S2L)-GA 4.0° TCH 26'. Trees. AIRPORT REMARKS: Attended Mon-Sat 1400-2300Z‡. VFR ops only. Rwy 28 SAVASI OTS indef. ACTIVATE MIRL Rwy

BUD N40°37.00′ W83°03.81′

4 SW UTC-5(-4DT) N40°19.74′ W82°31.57′

ACTIVATE MIRL Rwy 10-28-CTAF. Rwy 10 and Rwy 28 PAPI's opr continuously.

CLNC DEL 119.45

FUEL 80, 100LL, JET A1+ TPA-1999(808) NOTAM FILE CLE

MIRI

RWY 28: REIL. PAPI(P4L).

TIVERTON (L) VOR/DME 116.5 TVT Chan 112 N40°27.48′ W82°07.61′ 250° 19.9 NM to fld. 1340/3W.

EC. 23 SEP 2010 to 18 NOV 2010

RCLEVELAND CENTER APP/DEP CON 134.9 (0400-1100Z‡) MANSFIELD (L) VORTAC 108.8 MFD Chan 25 N40°52.12′ W82°35.46′ 213° 23.8 NM to fld. 1210/3W. 124° 11.2 NM to fld. NOTAM FILE MNN.

MOUNT VERNON

H-10G, L-29A Sun 1500-2200Z‡. For attendance other times call 24 hrs in advance 740-694-4687. Deer on and invof arpt.

MILLS

MORGAN CO

MORROW CO

MOUNT GILEAD MORROW CO

KNOX CO (413)

B S4 RWY 10-28: H5500X100 (ASPH) S-55, D-100 RWY 10: REIL. PAPI(P4L). Tree. AIRPORT REMARKS: Attended Nov-Mar Mon-Fri 1200-2300Z‡, Apr-Oct Mon-Fri 1200-0000Z‡, Sat 1400-2200Z‡,

DETROIT

DETROIT

L-29A IAP

IAP

250 WYNKOOP (6G4) 2 S UTC-5(-4DT) N40°21.90′ W82°29.74′

RWY 27: Road.

NOTAM FILE CLE

FUEL 100LL

RWY 06-24: 3355X90 (TURF) LIRL (NSTD) RWY 06: Thid dspicd 43'. Trees.

thids not lgtd; 2617' of rwy lgtd. NSTD LIRL ops dusk-dawn Apr-Oct. Rwy 06-24 edges and dspicd thids marked with white Igt fixtures with small white cones attached. COMMUNICATIONS: CTAF 122.9

MOUNT VICTORY ELLIOTTS LANDING (074) 1 SE UTC-5(-4DT) N40°31.48′ W83°30.70′

RWY 09-27: 2600X65 (TURF-DIRT)

1045 NOTAM FILE DAY RWY 15-33: 2750X110 (TURF)

1041 B S2

RWY 09: Brush.

RWY 15: Trees

RWY 33: P-line AIRPORT REMARKS: Unattended. Rwy 15-33 marked with tires on each end. COMMUNICATIONS: CTAF 122.9.

NAPOLEON

B S2

NEIL ARMSTRONG

NDB (MHW) 524 HEH

S4

RWY 10-28: H3956X65 (ASPH) MIRL

COMMUNICATIONS: CTAF/UNICOM 123.0 (R) TOLEDO APP/DEP CON 134.35

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. WATERVILLE (L) VOR/DME 113.1

(VTA)

HENRY CO

VWV

at Newark-Heath.

FUEL 100LL, JET A1+ 0X 1, 2

HEH N40°01.56′ W82°27.81′

LOC only.

(L) VOR/DME 111.8 CTW Chan 55 017° 14.7 NM to Harry Clever Fld. 1180/7W.

(See WAPAKONETA)

RWY 27: REIL. PAPI(P4R)-GA 3.25° TCH 20'. Fence.

intensity continuously to increase intensity-123.3. WEATHER DATA SOURCES: ASOS 121.125 (740) 522-1066.

Rwy 09.

(7W5) 3 E UTC-5(-4DT) N41°22.46′ W84°04.11′ FUEL 100LL, JET A NOTAM FILE CLE

RWY 10: REIL, PAPI(P2L)—GA 3.0° TCH 25', Road.

RWY 28: REIL, PAPI(P2L)—GA 3.0° TCH 25', Trees.

RWY 24: Thid dspicd 400'. Road.

AIRPORT REMARKS: Attended Apr-Sep Mon-Sat 1300-2300Z±, Oct-Mar Mon-Sat 1300-2100Z±, Deer on and invof arpt. For rotating bcn call 740-392-9125. Rwy 06-24 NSTD LIRL; one green thid lgt each side of thid; dsplcd

AIRPORT REMARKS: Attended Apr-Sep 1300Z‡-dusk, Oct-Mar, Mon-Sat 1300-2230Z‡. Rwy 28 REIL OTS indef. ACTIVATE MIRL Rwy 10-28; REIL Rwy 10 and Rwy 28; PAPI Rwy 10 and Rwy 28-CTAF.

Chan 78 N41°27.09' W83°38.32'

NOTAM FILE VTA

259° 19.9 NM to fld. 660/2W.

DETROIT

DETROIT

DETROIT

L-28J IAP

DETROIT

DETROIT

H-10G, L-29B

L-29A

IAP

DETROIT L-29A

NEWARK-HEATH

TPA-1900(1016) RWY 09-27: H4649X75 (ASPH) S-30 LIRL 0.3% up W RWY 09: REIL. PAPI(P4L)—GA 3.25° TCH 27'. Thid dsplcd 455'. Road.

AIRPORT REMARKS: Attended Apr-Oct 1230-0030Z‡, Nov-Mar 1230‡-dark, Fuel avbl 1230Z‡-dark, Deer occasionally on or near rwy, Rwy 09 and 27 REILS OTS indef. MIRL Rwy 09-27 and REIL Rwys 09 and 27 operates low

at fld.

NOTAM FILE CLE.

Unusable 015°-030°; 090°-100° byd 30 NM; 051°-066°; 011°-120° byd 30 NM blo 3300′.

EC. 23 SEP 2010 to 18 NOV 2010

3 SW UTC-5(-4DT) N40°01.48′ W82°27.71′

NEWARK N40°01.56′ W82°27.81′ NOTAM FILE DAY.

APPLETON RCO 122.1R 116.7T (DAYTON RADIO) R COLUMBUS APP/DEP CON 120.2 CLNC DEL 124.85 RADIO AIDS TO NAVIGATION: NOTAM FILE DAY. APPLETON (H) VORTAC 116.7 APE Chan 114 N40°09.06' W82°35.30' 148° 9.6 NM to fld. 1350/6W.

NEWCOMERSTOWN N40°13.75′ W81°28.59′

RCO 122.1R 111.8T (CLEVELAND RADIO)

COMMUNICATIONS: CTAF/UNICOM 122.7

RXK

2AWIH

NDB (MHW) 524

ILS 110.9

251 OHIO NEW LEXINGTON PERRY CO (186) CINCINNATI 2 S UTC-5(-4DT) N39°41.50′ W82°11.87′ B S2 FUEL 100LL NOTAM FILE CLE L-29B RWY 08-26: H3498X75 (ASPH) MIRL 0.3% up SW IAP RWY NR. Fence RWY 26. RFII Trees AIRPORT REMARKS: Attended Mon-Sat 1300-2100Z±. For fuel after hrs call 740-605-1966. For after hrs call ahead for svc 740-343-0933. Rwy 08-26 has 3" to 4" wide cracks at various locations. Rwy 26 REIL OTS indef. ACTIVATE MIRL 08-26 and REIL Rwy 26-122.8. Deer and turkey on and invof arpt. COMMUNICATIONS: CTAF/UNICOM 122.8 (R) INDIANAPOLIS CENTER APP/DEP CON 124.45 RADIO AIDS TO NAVIGATION: NOTAM FILE ZZV. ZANESVILLE (L) VOR/DME 111.4 ZZV Chan 51 N39°56.45′ W81°53.56′ 229° 20.6 NM to fld. 900/6W. **NEW PHILADELPHIA** HARRY CLEVER FLD (PHD) 3 SE UTC-5(-4DT) N40°28.21′ W81°25.20′ DETROIT B S4 FUEL 100LL, JET A+ NOTAM FILE PHD I-29B ΙΔΡ RWY 14-32: H3951X100 (ASPH) S-52.5, D-67.5, 2S-86, 2D-140 MIRL RWY 14: REIL. PAPI(P4R)—GA 4.0° TCH 30'. Thid dspicd 330'. Trees. RWY 32: REIL, PAPI(P4L)—GA 4.0° TCH 54', Road. RWY 11-29: 1907X70 (TURF) RWY 11: Trees. RWY 29: Trees. AIRPORT REMARKS: Attended Apr-Sep 1300-0100Z‡, Oct-Mar 1300-2200Z‡. Two 919' unlighted twrs 180' NE of Rwy 14-32. ACTIVATE MIRL Rwy 14-32-123.3. WEATHER DATA SOURCES: ASOS 121.425 (330) 339-1125. COMMUNICATIONS: CTAF/UNICOM 122.8 BRIGGS RCO 122.1R 112.4T (CLEVELAND RADIO) RCLEVELAND CENTER APP/DEP CON 134.9 (0500-1100Z‡) (R) AKRON-CANTON APP/DEP CON 125.5 (1100-0500Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. BSV Chan 71 N40°44.44′ W81°25.93′ BRIGGS (L) VOR/DME 112.4 182° 16.2 NM to fld. 1230/4W. NEWCOMERSTOWN (L) VOR/DME 111.8 CTW Chan 55 N40°13.75′ W81°28.59′ 017° 14.7 NM to fld. 1180/7W. HIWAS. NEWTON FALLS

BRACEVILLE (41N) 2 N UTC-5(-4DT) N41°12.67′ W80°58.16′ NOTAM FILE CLE RWY 01-19: H3000X30 (ASPH) RWY 01: Thid dspicd 55'. Bldg. RWY 19: Trees.

UTC-5(-4DT)

Chan 91 N41°06.48' W81°12.09'

AIRPORT REMARKS: Unattended. Rwy 08-26 CLOSED indef. No touch and go landings and no student training. No ops

AIRPORT REMARKS: Attended irregularly. COMMUNICATIONS: CTAF/UNICOM 122.8 RADIO AIDS TO NAVIGATION: NOTAM FILE CAK.

NOBLE CO

594

NORTH BASS ISLAND

dusk-dawn.

AKRON (L) VOR/DME 114.4

NOTAM FILE CLE RWY 08-26: 1900X150 (TURF) RWY 01-19: H1804X60 (ASPH)

COMMUNICATIONS: CTAF/UNICOM 122.8

(See CALDWELL)

ACO

Ø NW

RWY 19: Trees. Rgt tfc.









DETROIT

63° 12.2 NM to fld. 1200/4W.

N41°43.08' W82°49.27'

252 OHIO NORWALK-HURON CO (5A1) 3 E UTC-5(-4DT) N41°14.69′ W82°33.07′ S4 FUEL 100LL, JET A NOTAM FILE CLE 0.4% up W

1-30F RWY 10-28: H4210X75 (ASPH) MIRL IAP RWY 10: Thid dspicd 240'. Trees. C3 RWY 28: Thid dspicd 668'. Road. Ø ß AIRPORT REMARKS: Attended Mon-Sat 1400-2200Z‡, Sun Œ 63 1800-2300Z±, ACTIVATE MIRL Rwv 10-28-CTAF, Drag strip on E end of rwy ß 3. COMMUNICATIONS: CTAF/UNICOM 122.8 Ø 4 R MANSFIELD APP/DEP CON 124.2 (1100-0400Z‡) 03 R CLEVELAND CENTER APP/DEP CON 127.9. (0400-1100Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. Œ SANDUSKY (L) VOR/DME 109.2 SKY Chan 29 N41°26.07' 4210 X 75 W82°39.29' 162° 12.3 NM to fld. 580/4W. **(3 (3** Ø 63 (3 €3 Œ Œ æ €3 ¢ Drag Strip

N41°02.14′ W83°58.92′

OHIO UNIVERSITY SNYDER FLD (See ATHENS-ALBANY) OHIO STATE UNIVERSITY (See COLUMBUS)

(See PANDORA)

OHIO DUSTING CO INC

OLD PORTAGE HELIPORT (See AKRON)

ONIDA N39°34.70′ W84°19.41′

NOTAM FILE MGY.

NDB (LOM) 223 MW 234° 4.4 NM to Middletown Rgnl/Hook Fld. Unmonitored.

OTTAWA PUTNAM CO (OWX) 3 NE UTC-5(-4DT)

> S2 FUEL 100LL, JET A NOTAM FILE CLE RWY 09-27: H4427X65 (ASPH) MIRL

RWY 27: REIL. PAPI(P2L). Road. RWY 09: REIL. Road. AIRPORT REMARKS: Attended Mon-Fri 1400-2200Z‡. For svcs after hrs call 419-456-3410. Parachute Jumping. Extensive glider ops. Intensive agricultural ops and crop dusting. PAEW invof ramp indef. Windsock OTS indef.

Rwy 09 REIL OTS indef. ACTIVATE MIRL Rwy 09-27 and REIL Rwy 09 and Rwy 27-CTAF. WEATHER DATA SOURCES: AWOS-3 120.525 (419) 523-4151. COMMUNICATIONS: CTAF/UNICOM 122.7 (R) TOLEDO APP/DEP CON 120.8

Chan 19 N40°57.32′ W83°45.36′ 297° 11.3 NM to fld. 820/2W. FINDLAY (L) VORTAC 108.2 FDY **OXFORD** N39°30.45′ W84°46.84′ NOTAM FILE DAY

RADIO AIDS TO NAVIGATION: NOTAM FILE FDY.

NDB (MHW) 282 OXD at Miami University. NDB unmonitored.

EC. 23 SEP 2010 to 18 NOV 2010

8

DETROIT

CINCINNATI

DETROIT L-28J IAP

CINCINNATI

L-27E

PANDORA not marked. COMMUNICATIONS: CTAF 122.9

> CINCINNATI FFO (115.2) at Wright Patterson AFB, 804/4W.

> > UTC-5(-4DT) N41°10.09' W84°33.41'

NOTAM FILE CLE

AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡. Arpt CLOSED indef. ACTIVATE LIRL Rwy 18-36-122.9. Rwy

EC. 23 SEP 2010 to 18 NOV 2010

L-27E

DETROIT

PATTERSON N39°49.14′ W84°03.33′ NOTAM FILE FFO. (T) TACAN Chan 99 TACAN azimuth unusable: 295°-360° byd 10 NM blo 5,000'.

RWY 36: Building.

PERRY CO

COMMUNICATIONS: CTAF 122.9

PARR

PAULDING AIRPORT INC (2H8) 2 NE

(See ZANESVILLE)

RWY 18-36: 2861X80 (TURF) LIRL (NSTD)

18-36 NSTD LIRL; thid lgts incorrect color.

(See NEW LEXINGTON)

PARSONS (See CARROLLTON)

OX 4 TPA-1500(779)

AIRPORT REMARKS: Attended 1400-2300Z‡. Arpt CLOSED to helicopter training. Do not fly over school 2100' S of arpt in line with rwy. Rwy 03-21 2416' lgtd between dsplcd thlds only. COMMUNICATIONS: CTAF/UNICOM 122.7 RDAYTON DEP CON 134.45 (181°-359°) 118.0 R DAYTON APP CON 134.45 (181°-359°) RADIO AIDS TO NAVIGATION: NOTAM FILE DAY. DAYTON (L) VOR/DME 114.5 DON Chan 92 N40°00.99' W84°23.81' 183° 6.2 NM to fld. 990/1W. PICKAWAY CO MEM (See CIRCLEVILLE) N39°52.86′ W82°50.17′. NOTAM FILE LCK. NDB (LOM) 376 LC 231° 5.9 NM to Rickenbacker Intl.

UHIU

RWY 21: REIL. Trees.

UTC-5(-4DT) N40°09.88' W84°18.51'

at fld.

0 N UTC-5(-4DT) N39°54.80′ W84°24.03′

NOTAM FILE DAY

PIKE CO (See WAVERLY)

(317)

RWY 03: REIL. Thid dsplcd 130'. Tree.

FUEL 100LL

LIRL

254

PHILLIPSBURG

1031 R S4 RWY 03-21: H3000X40 (ASPH)

(117)

PIQUA AIRPORT-HARTZELL FLD 3 NW B FUEL 100LL, JET A1+

NOTAM FILE DAY RWY 08-26: H3997X75 (ASPH) S-30, D-36 RWY 08: REIL. Tree. RWY 26: REIL. Tree.

AIRPORT REMARKS: Attended 1300-2200Z‡. Fuel avbl 24 hrs—credit card. Propeller repairs avbl. Aerobatic box lctd within 1 NM radius of arpt surface to 4500' MSL SR-SS. ACTIVATE MIRL Rwy 08-26 and REIL Rwy 08 and Rwy 26—CTAF

COMMUNICATIONS: CTAF/UNICOM 123 O ROSEWOOD RCO 122.1R, 117.5T (DAYTON RADIO)

R DAYTON APP/DEP CON 118.425 (360°-090°) 134.45 (181°-359°) RADIO AIDS TO NAVIGATION: NOTAM FILE DAY. DAYTON (L) VOR/DME 114.5 DQN Chan 92 N40°00.99' W84°23.81' 026° 9.8 NM to fld. 990/1W. HIWAS.

ROSEWOOD (H) VORTAC 117.5 ROD

Chan 122 N40°17.27′ W84°02.59′ PORTAGE CO (See RAVENNA) (See BUCYRUS)

PORT BUCYRUS-CRAWFORD CO PORT CLINTON N41°31.12′ W82°52.12′ NOTAM FILE CLE.

NDB (MHW) 423 PCW at Carl R Keller Fld.

PORT CLINTON CARL R KELLER FLD

FUEL 100LL, JET A NOTAM FILE CLE RWY 09-27: H5646X100 (ASPH) S-16. MIRI

(PCW) 3 E UTC-5(-4DT) N41°30.98′ W82°52.17′ RWY 09: REIL. PAPI(P4L)-GA 3.5° TCH 31'. Trees.

RWY 27: REIL. PAPI(P4L)—GA 4° TCH 28'. Thid dspicd 201'. Trees. RWY 18-36: H4001X75 (ASPH) MIRI RWY 18: Trees. RWY 36: Road.

AIRPORT REMARKS: Attended 1300-2300Z‡. ACTIVATE MIRL Rwy 09-27 and Rwy 18-36; REIL Rwy 09 and Rwy 27; PAPI Rwy 09 and Rwy 27-CTAF. WEATHER DATA SOURCES: AWOS-3 118.775 (419) 734-9955 COMMUNICATIONS: CTAF/UNICOM 122.8

SANDUSKY RCO 122.1R 109.2T (CLEVELAND RADIO) CLEVELAND APP/DEP CON 126.35 RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. Chan 29 N41°26.07' W82°39.29' SANDUSKY (L) VOR/DME 109.2 SKY PORT CLINTON NDB (MHW) 423 PCW N41°31.12′ W82°52.12′

COMM/NAV/WEATHER REMARKS: AWOS-3 ceiling unreliable. PORT COLUMBUS INTL (See COLUMBUS) PORTSMOUTH N38°46.91′ W82°50.67′ NOTAM FILE DAY. 002° 3.5 NM to Greater Portsmouth Rgnl, VFR only.

EC. 23 SEP 2010 to 18 NOV 2010

DETROIT

IAP

HIWAS.

CINCINNATI

CINCINNATI

1-27F

IAP

L-27E

244° 14.3 NM to fld. 1080/5W.

DETROIT L-30F DETROIT

H-10G, L-30F IAP

CINCINNATI

L-22E

301° 10.9 NM to fld. 580/4W.

OHIO 255 PORTSMOUTH

NOTAM FILE DAY

UTC-5(-4DT)

NOTAM FILE DAY

CLNC DEL 125.65

RWY 27: Trees.

NOTAM FILE CLE

EC. 23 SEP 2010 to 18 NOV 2010

RWY 18: REIL. PAPI(P4L) TCH 26'. Trees. RWY 36: REIL, PAPI(P4L) TCH 31', Tree.

N38°50.43′ W82°50.84′

GREATER PORTSMOUTH RGNL

10 NE

AIRPORT REMARKS: Attended Apr-Dec 1300-0100Z‡, Jan-Mar 1300-0000Z±, Hill obstruction lgts 460' aby arpt (1124' MSL) 1 mile S and 410' aby arpt (1074' MSL) 1/2 mile NW. Acft not visible from one rwy end to another or no line of sight between rwy ends.

S4 FUEL 100LL. JET A1+

RWY 18-36: H5001X100 (ASPH) S-30, D-42, 2D-70

(PMH)

Rwy 36 REIL OTS indef. Ldg fee for commercial acft waived with fuel purchase. ACTIVATE MIRL Rwy 18-36; REIL Rwys 18 and

36—CTAF WEATHER DATA SOURCES: AWOS-3 125.175 (740) 820-2500. COMMUNICATIONS: CTAF/UNICOM 122.8

(R) HUNTINGTON APP/DEP CON 128.4 RADIO AIDS TO NAVIGATION: NOTAM FILE LOU. YORK (L) VORTAC 112.8 YRK Chan 75 N38°38.65

W82°58.70' 033° 13.3 NM to fld. 1040/5W.

PORTSMOUTH NDB (MHW) 373 PMH N38°46.91' W82°50.67'

002° 3.5 NM to fld. NOTAM FILE DAY. VFR only.

PUT IN BAY (3W2) 1 SW UTC-5(-4DT)

NOTAM FILE CLE

RWY 03-21: H2870X75 (ASPH)

RWY 03: Thid dspicd 452'. Trees. Rgt tfc.

moderate turbulence on departure and approach when wind exceeds 10 knots. Acft Indg Rwy 21 or departing Rwy 03 stay 1000' clear of Perry's Monument 352' AGL/942' MSL 1½ miles NE of arpt. No touch and go ldg: no student training. Parking/ramp fees are collected for all private or commercial acft. All pilots are required to

are required to shut down engine(s) prior to enplaning/deplaning passengers. COMMUNICATIONS: CTAF/UNICOM 122.8

PUTNAM CO (See OTTAWA)

RADNOR 3 NW

UTC-5(-4DT) N40°24.48′ W83°13.16′

PACKER RWY 09-27: 3470X90 (TURF)

FUEL 100LL TPA-1818(900) RWY 09: Thid dspicd 120'. Road.

AIRPORT REMARKS: Attended continuously, Rwy 09-27 marked by cones.

COMMUNICATIONS: CTAF 122.9

PORTAGE CO UTC-5(-4DT) N41°12.61' W81°15.10'

RAVENNA

S4 FUEL 100LL, JET A

RWY 09-27: H3500X75 (ASPH) MIRI RWY 09: REIL. Trees. RWY 27: REIL. PAPI(P4L). Trees. AIRPORT REMARKS: Attended 1300-22007. 24 hr self svc fuel. Paraglider ops by permit only. Deer on and invof arpt.

All areas off rwy surface soft when wet or thawing, ACTIVATE MIRL Rwy 09-27; REIL Rwy 09 and Rwy 27 and PAPI Rwy 27-CTAF. WEATHER DATA SOURCES: AWOS-3 118.675 (330) 298-9353.

COMMUNICATIONS: CTAF/UNICOM 123.05 AKRON RCO 122.1R, 114.4T (CLEVELAND RADIO) R AKRON-CANTON APP/DEP CON 118.6 (1100-0500Z‡) (R) CLEVELAND CENTER APP/DEP CON 120.775 (0500-1100Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE CAK.

AKRON (L) VOR/DME 114.4 ACO Chan 91 N41°06.47' W81°12.09' READER-BOTSFORD (See WELLINGTON) **RED STEWART AIRFIELD** (See WAYNESVILLE)

3 a ଫଣ *4*3 3 €3 000 000 000 őo° 2 oci ci GG G ଜୁନ ସ Ø ∢₃ တို့ လည် GG (€3 13 Ø C3 C3 ~ G G 100 03 03 æ GG G €3 Ø

N41°38.20′ W82°49.70′ DETROIT RWY 21: Thid dspicd 657'. Trees.

AIRPORT REMARKS: Attended May-Sept 1300-0100Z‡, Oct-Apr 1230-2230Z‡. Acft ops prohibited dusk-dawn. Expect

check into the arpt office at the time of arrival. No tiedown ropes provided; please bring your own set. All acft

DETROIT

CINCINNATI

IAP

H-10G, L-26G

344° 6.5 NM to fld. 1194/4W.

DETROIT L-30G

IAP

256 OHIO RICHARD DOWNING (See COSHOCTON) RICKENBACKER INTL (See COLUMBUS) ROSEWOOD N40°17.27′ W84°02.59′ NOTAM FILE DAY. DETROIT 246° 5.7 NM to Sidney Muni. 1080/5W. (H) VORTAC 117.5 ROD Chan 122 H-10G, L-27E RCO 122.1R 117.5T (DAYTON RADIO) ROSS CO (See CHILLICOTHE) RUHE'S (See LEIPSIC) RUSHSYLVANIA N40°27.54′ W83°40.08′ NOTAM FILE DAY. DETROIT NDB (MHW) 326 RUV 233° 4.2 NM to Bellefontaine Rgnl. SHUTDOWN. 1-27F ST CLAIRSVILLE ALDERMAN (2P7) 3 W UTC-5(-4DT) N40°03.41′ W80°57.79′ DETROIT L-29R NOTAM FILE CLE RWY 01-19: H2843X50 (ASPH) LIRL 0.8% up N. IAP RWY 01: Trees. RWY 19: Trees. AIRPORT REMARKS: Attended 1300Z‡—dusk. Rwy 01-19 surface has med block cracking throughout. South half of ramp - poor condition - broken pavement. Call ahead to ACTIVATE rotating bcn and LIRL Rwy 01-19-740-695-0908. Ldg fee. COMMUNICATIONS: CTAF 122.9 BELLAIRE RCO 122.1R 117.1T (CLEVELAND RADIO) (R) CLEVELAND CENTER APP/DEP CON 120.4 RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. BELLAIRE (H) VOR/DME 117.1 AIR Chan 118 N40°01.02′ W80°49.04′ 297° 7.1 NM to fld. 1290/7W. ST MARYS **GRAND LAKE ST MARYS SPB** (012)5 NE UTC-5(-4DT) N40°32.46′ W84°29.44′ DETROIT NOTAM FILE DAY WATERWAY 09-27: 7000X4000 (WATER) WATERWAY 09: Buov. WATERWAY 27: Buoy. Rgt tfc. SEAPLANE REMARKS: Attended Apr-Nov 1300-2200Z‡. Arpt CLOSED Nov 15 thru Apr 1 and Memorial and Labor day. No ngt ldgs. No public docks; PPR reg for private dock tie up; call 419-394-8797. COMMUNICATIONS: CTAF 122 9 COMM/NAV/WEATHER REMARKS: Acft operating at Seaplane Base should monitor 122.8 for tfc at Celina Lakefld and Neil Armstrong Wapakoneta Arpts. SALEM KOONS (8G8) 2 SW UTC-5(-4DT) N40°53.00′ W80°52.99′ DETROIT NOTAM FILE CLE RWY 09-27: 1850X100 (TURF) RWY 09: P-line. RWY 27: Trees. Rgt tfc. AIRPORT REMARKS: Attended dalgt hrs. Ldg fee. COMMUNICATIONS: CTAF 122.9 SALEM AIRPARK INC (38D) 3 N UTC-5(-4DT) N40°56.89′ W80°51.73′ DETROIT L-30G S4 FUEL 100LL NOTAM FILE CLE IAP RWY 10L-28R: H3404X50 (ASPH) LIRL (NSTD) 0.3% un F RWY 10L: Trees. RWY 28R: Thid dsplcd 258'. Trees. RWY 10R-28L: 2593X85 (TURF) 0.4% up E RWY 10R. Trees RWY 28L: Pole. AIRPORT REMARKS: Attended 1400Z‡-dusk. CAUTION: P-line crosses apch end of Rwys 28L and 28R at thld. CAUTION: Drag Strip 3500' SE of arpt. Arpt bcn ops dusk-0430Z‡. Arpt lgts ops dusk-0500Z‡. ACTIVATE LIRL Rwy 10L-28R—CTAF. For rotating bcn after 0430Z‡ call airport manager before dusk on 330-533-1060. Rwy 10L-28R NSTD LIRL; Rwy 28R Igtd 330' from rwy end with 360° green Igts; Rwy 10L Igtd 238' from rwy end .

Rwy 10R-28L marked with yellow cones on N side of rwy; rwy ends not marked.

YOUNGSTOWN (L) VORTAC 109.0 YNG Chan 27 N41°19.86' W80°40.48' 205° 24.5 NM to fld. 1160/5W.

EC. 23 SEP 2010 to 18 NOV 2010

COMMUNICATIONS: CTAF/UNICOM 122.7

2AWIH

RADIO AIDS TO NAVIGATION: NOTAM FILE YNG.

AKRON-CANTON APP/DEP CON 125.5 (1100-0500Z‡) (R) CLEVELAND CENTER APP/DEP CON 120.775 (0500-1100Z±)

OHIO 257 SALT FORK LODGE HELIPORT (See CAMBRIDGE) SANDUSKY N41°26.07′ W82°39.29′ NOTAM FILE CLE. DETDOIT (L) VOR/DME 109.2 SKY Chan 29 at Griffing-Sandusky, 580/4W. H-10G, L-30F SANDUSKY CO RGNL (See FREMONT) SANDUSKY GRIFFING-SANDUSKY (SKY) 3 SE UTC-5(-4DT) N41°26.00' W82°39.14' DETROIT S4 AOE NOTAM FILE CLE 1-30F

RWY 27: PAPI(P4L). Tree.

FUEL 100LL, JET A LIRI

RWY 09-27: H3559X60 (ASPH) S-9

RWY 09: REIL. Thid dspicd 183'. Road. RWY 18-36: H2593X40 (ASPH) LIRL RWY 36: Thid dspicd 405', Road.

AIRPORT REMARKS: Attended 1300-0000Z‡. Arpt CLOSED Christmas and Thanksgiving. Waterfowl bird hazard adjacent to arpt. Deer on and invof arpt. Ldg fee. Flight Notification Service (ADCUS) available. COMMUNICATIONS: CTAF/UNICOM 123.0

SANDUSKY RCO 122.1R 109.2T (CLEVELAND RADIO) CLEVELAND APP/DEP CON 126.35

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. SANDUSKY (L) VOR/DME 109.2 SKY

Chan 29 N41°26.07′ W82°39.29′ SCHMELTZER HELIPORT (See AKRON)

SEAGATE HELISTOP (See TOLEDO)

SFRRING

TRI-CITY (3G6) 1 SE UTC-5(-4DT) N40°54.36′ W81°00.00′ 1188 FUEL 100LL NOTAM FILE CLE

RWY 17-35: H2768X45 (ASPH) MIRL (NSTD) RWY 17. Trees RWY 35. Tree AIRPORT REMARKS: Attended 1400Z±-dusk, 100LL fuel avbl 24 hrs with credit card, ACTIVATE MIRL Rwy

17-35-CTAF. Rwy 17-35 NSTD MIRL; thid lgtd with 2 blue/red lgts each side. COMMUNICATIONS: CTAF 122.9 AKRON RCO 122.1R 114.4T (CLEVELAND RADIO) (R) AKRON-CANTON APP/DEP CON 125.5 (1100-0500Z‡)

R CLEVELAND CENTER APP/DEP CON 120.775 (0500-1100Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE CAK. AKRON (L) VOR/DME 114.4 ACO

SENECA CO (See TIFFIN)

SHELBY COMMUNITY (12G) 2 W UTC-5(-4DT)

Chan 91 N41°06.47′ W81°12.09′ 147° 15.2 NM to fld. 1194/4W.

1120 B S4 NOTAM FILE CLE RWY 18-36: H3174X50 (ASPH) S-5 LIRL (NSTD)

RWY 18: Road. RWY 36: P-line. RWY 03-21: 1890X125 (TURF) RWY 03: Tree RWY 21: Building. AIRPORT REMARKS: Attended 1100-2200Z‡. Rwy 18-36 NSTD LIRL; Rwy 18 thld lgts 220' from rwy end. Rwy lgts 62' from east edge

and 47' from west edge of rwy. COMMUNICATIONS: CTAF/UNICOM 122.8 (R) MANSFIELD APP/DEP CON 124.2 (1100-0400Z±) CLEVELAND CENTER APP/DEP CON 134.9 (0400-1100Z±)

RADIO AIDS TO NAVIGATION: NOTAM FILE MFD. MANSFIELD (L) VORTAC 108.8 MFD Chan 25 N40°52.12'

W82°35.46' 276° 4.9 NM to fld. 1210/3W

N40°52.39′ W82°41.84′ DETROIT L-29A IAP ភ<mark>ិ</mark>ថ្ម សូម្ ଫ୍ଟ୍ଟ

at fld. 580/4W.

IAP

DETROIT

L-29B

IAP

EC. 23 SEP 2010 to 18 NOV 2010

SIDNEY MUNI (I12) 3 S UTC-5(-4DT) N40°14.49′ W84°09.05′	DETROIT
1044 B S2 FUEL 100LL, JET A TPA—1844(800) NOTAM FILE DAY	L-27E
RWY 10-28: H4785X75 (ASPH) MIRL	IAP
RWY 10: PAPI(P2L). Thid dspicd 480'. Trees. RWY 28: REIL. PAPI(P2R)—GA 3.0° TCH 40'. Road.	
RWY 05-23: H2981X50 (ASPH)	
RWY 05: Road. RWY 23: P-line.	
AIRPORT REMARKS: Attended 1300–2300Z‡, ACTIVATE MIRL Rwy 10–28, and REIL Rwy 28—CTAF.	
WEATHER DATA SOURCES: AWOS-3 120.425 (937) 492-3683.	
COMMUNICATIONS: CTAF/UNICOM 123.05	

L-27E

OHIO

258

ROSEWOOD RCO 122.1R 117.5T (DAYTON RADIO) R DAYTON APP/DEP CON 118.425 (360°-090°) RADIO AIDS TO NAVIGATION: NOTAM FILE DAY. ROSEWOOD (H) VORTAC 117.5 ROD

Chan 122 N40°17.27′ W84°02.59′ 246° 5.7 NM to fld. 1080/5W. **SPORTYS** N39°04.06′ W84°12.92′ NOTAM FILE DAY. CINCINNATI

NDB (MHW) 245 PWF at Clermont Co. NDB unusable byd 15 NM.

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SPRINGFIELD-BECKLEY MUNI (SGH)(KSGH) CIV/MIL/ANG 5 S UTC-5(-4DT) N39°50.42′ W83°50.41′

1051 S4 FUEL 100LL, JET A TPA—See Remarks Class IV. ARFF Index A NOTAM FILE SGH

H-10G I-27F IAP, DIAP, AD

CINCINNATI

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RWY 06-24: H9009X150 (ASPH-CONC-GRVD) S-50, D-60 PCN 60 R/B/W/T HIRL

RWY 06: REIL. PAPI(P4L)—GA 3.0° TCH 43'. Trees. RWY 24: ALSF2. PAPI(P4L)—GA 3.0° TCH 54'. Road.

S-12

RWY 15-33: H5499X100 (ASPH) RWY 15: REIL. PAPI(P4L)-GA 3.0° TCH 36'. Trees.

RWY 33: REIL. PAPI(P4L) TCH 36'. Trees.

RUNWAY DECLARED DISTANCE INFORMATION

RWY NA-

TORA-9009 TODA-9009 ASDA-9009 TORA-5499 TODA-5499 ASDA-5499 RWY 15-

RWY 24-TORA-9009 TODA-9009 ASDA-9009 LDA-9009 RWY 33-TORA-5499 TODA-5499 ASDA-5499 LDA-5499

ARRESTING GEAR/SYSTEM

RWY 06 ← HOOK E5 (35' OVRN) BAK-14 BAK-12A(B) (943')

BAK-14 BAK-12A(B) (991') HOOK E5 (35' OVRN) → RWY 24 MILITARY SERVICE: A-GEAR Cable raised by BAK-14 device on request to

twr. BAK-12A(B) avbl Tue-Fri 1230-2130Z‡, may be extended, other times by NOTAM for mil flying, Rwy 06-24 E-5 chain in overrun, departure engagement only.

FUEL J8(Mil) (NC 100LL, A) JASU 6(AM32A-60B)

FLUID PRESAIR LPOX LOX 0IL 0-133-148-156(Mil) SOAP

AIRPORT REMARKS: Attended 1200-2300Z‡. Deer on and invof arpt. Heavy bird activity fall and winter months. Caution: Bird watch cond phase I (Dec-Jun) indicates light bird activity. Phase II (Jul-Nov) indicates heavy activity normally associated with migratory season. During twr operating hours Rwy 24 is the preferred rwy, wind 10 knots or less. Rwy 06-24 arresting device may be up when twr clsd. Rwys 06 and 24 acft arresting device

LDA-9009

IDA-5499

BAK 12 located 35' beyond apch end Rwys 06 and 24. Closed to scheduled air carrier ops with greater than 9 passenger seats and unscheduled air carrier ops greater than 30 passenger seats. 90-day PPR, call arpt manager 937-325-6108. Rwy 15-33 limited to 25,000 lbs single wheel load capacity or less. Noise Abatement: Avoid over flying Yellow Springs 2 NM SW blo 4000', practice circling instrument approach not authorized blo 2000' establish on final. Avoid overflying ANG ramp. When twr clsd ACTIVATE ALSF2 Rwy 24, MIRL Rwy 15-33; REIL Rwy 06, Rwy 15 and Rwy 33-CTAF. HIRL Rwy 06-24 preset on med ints to increase ints ACTIVATE—CTAF, Rwy 15-33 and Twy F not aybl for air carrier ops, Rwy 06-24 980' concrete NE end, 1200'

concrete SW end. TPA 2100 (1049), overhead 2600 (1549). MILITARY REMARKS: See FLIP AP/1 Supplementary Arpt Remarks. RSTD Mil practice instrument apch not authorized when twr clsd. CAUTION A-gear Rwy 06-24 may be up when twr clsd. MISC Military practice instrument approach not authorized when twr closed. Wx obsn-Rwy 06 apch end not visible from the official point of obsn. Visibility is Itd from SW to NW. ANG PPR at all times DSN 346-2319, C937-327-2319. Runway Condition Reading not avbl. All tran acft ctc 178 F/W OPS. Inbound acft accepting penetrate and radar vectors from IND Center and Dayton Apch expect extensive low altitude vectoring. Opr Tue-Fri 1230-2130Z‡, may be extended other times by NOTAM for mil flying. Std USAF RSRS applies.

WEATHER DATA SOURCES: ASOS 134.975, LAWRS.

COMMUNICATIONS: CTAF 120.7 **UNICOM** 122.95 ATIS 257.875

R DAYTON APP/DEP CON 126.5 (091°-180°) 118.85 127.225 327.1

TOWER 120.7 291.775 (Tue-Fri 1230-2130Z‡) other times by NOTAM. GND CON 121.7 225.4

178 FW OPS (SABER OPS) 324.7 AIRSPACE: CLASS D svc Tue-Fri 1230-2130Z‡, may be extended, other times by NOTAM for military flying, other times

CLASS G

RADIO AIDS TO NAVIGATION: NOTAM FILE SGH.

(T) VORW/DME 113.2 SGH Chan 79 N39°50.19' W83°50.70' at fld. 1047/4W. VOR portion unusable 156°-200°.

(See CANTON)

XSF (133.8)

N39°50.29′ W83°50.44′ at fld. 1052/4W. NOTAM FILE DAY. TACAN unusable $090^{\circ}-115^{\circ}$ blo 5000' byd 15 NM. Unmonitored when twr clsd. No NOTAM MP Thu $1330-1530Z\ddagger$. 238° 3.4 NM to fld. NDB unmonitored. CLARK CO NDB (MHW) 341 CCJ N39°52.42′ W83°46.77′

Rwy 24. Unmonitored when twr clsd. No NOTAM MP Tue 1800-2100Z‡. I-SGH Class IE.

EC. 23 SEP 2010 to 18 NOV 2010

STANLEY N40°51.75′ W84°36.83′ NOTAM FILE DAY. NDB (MHW) 411 VFU at Van Wert Co.

DETROIT L-27E

STARK COUNTY SHERIFF HELIPORT

STFIIRFNVILLE

JEFFERSON CO AIRPARK (2G2) 4 W UTC-5(-4DT) N40°21.57′ W80°42.00′ FUEL 100LL, JET A NOTAM FILE CLE

RWY 14-32: H4400X60 (ASPH) S-7

RWY 32. REII AIRPORT REMARKS: Attended 1300-2100Z‡, Fuel Jet A and 100LL avbl

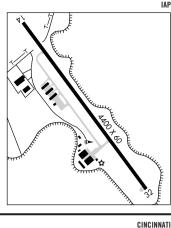
24 hours with credit card. Deer on and invof arpt. Ultralight activity on and invof arpt weekday evenings and weekends. ACTIVATE MIRL Rwv 14-32: REIL Rwv 32-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8 PITTSBURG APP/DEP CON 124.75

RADIO AIDS TO NAVIGATION: NOTAM FILE HLG.

Chan 59 N40°15.60'

WHEELING (L) VOR/DME 112.2 HLG W80°34.12' 322° 8.5 NM to fld. 1270/07W.



SUMIE N39°59.17′ W82°45.27′ NOTAM FILE DAY. NDB (HW/LOM) 391 CM 281° 6.4 NM to Port Columbus Intl. Unmonitored.

TABEY N41°34.15′ W81°34.43′ NOTAM FILE BKL. NDB (LOM) 248 BF 245° 5.8 NM to Burke Lakefront. SHUTDOWN.

TIFFIN N41°05.89′ W83°12.46′ NOTAM FILE CLE. NDB (MHW) 269 TII at Seneca Co. NDB unmonitored.

TIFFIN SENECA CO (16G) 2 SW UTC-5(-4DT) N41°05.64′ W83°12.75′

S4 FUEL 100LL. JET A

RWY 06-24: H4000X75 (ASPH) MIRL

and Rwv 24-CTAF.

RWY 06: REIL. PAPI(P4L)-GA 3.0° TCH 38'. Tree. RWY 24: REIL. PAPI(P4L)-GA 3.0°TCH 38'. Trees. AIRPORT REMARKS: Attended 1300Z‡-dusk. Fuel available 24 hrs with credit card. Rwy 06 PAPI unusable byd 5° left of centerline. Rwy 24 VASI unusable byd 5° left of centerline. ACTIVATE MIRL Rwy 06-24; REIL and PAPI Rwy 06

WEATHER DATA SOURCES: AWOS-3 121.175 (419) 443-1043.

(R) TOLEDO APP/DEP CON 120.8 RADIO AIDS TO NAVIGATION: NOTAM FILE FDY. FINDLAY (L) VORTAC 108.2 FDY Chan 19 N40°57.32′ W83°45.36′ 073° 26.0 NM to fld. 820/2W.

COMMUNICATIONS: CTAF/UNICOM 123.0

TIFFIN NDB (MHW) 269 TII N41°05.89' W83°12.46' at fld. NOTAM FILE CLE. NDB unmonitored.

TIVERTON N40°27.48′ W82°07.61′ NOTAM FILE CLE.

(L) VOR/DME 116.5 TVT Chan 112 062° 9.2 NM to Holmes Co. 1340/3W.

OX 1. 2 NOTAM FILE CLE

DETROIT

IAP

L-29A

I-29A

DETROIT

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L-28J. 29A

L-28J. 29A

DETROIT

L-29B

TOLEDO

METCALF FLD (TDZ) 6 SE UTC-5(-4DT) N41°33.90′ W83°28.93′ B S4 FUEL 100LL, JET A OX 1, 3 NOTAM FILE TDZ

RWY 14-32: H5829X100 (ASPH-GRVD) S-63, D-85, 2S-107 MIRL

RWY 14: REIL. PAPI(P4L)—GA 3.0° TCH 34'. Thid dspicd 578'. Tower.

RWY 32: VASI(V4L)—GA 3.0° TCH 43'. Thid dsplcd 587'. Road. RWY 04-22: H3799X75 (ASPH) S-63, D-85, 2S-107 MIRL RWY 04: REIL, PAPI(P4L)—GA 3.0° TCH 30', Thid dspicd 100'.

RWY 22: REIL. PAPI(P4L)-GA 3.0° TCH 25'. Thid dsplcd 380'. Railroad.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 14: TORA 4600 TODA 4600 ASDA 5242 LDA 4680

RWY 32: TORA 5268 TODA 5268 ASDA 5268 LDA 4680 AIRPORT REMARKS: Attended Mon-Fri continuously, Sat-Sun 1300-0100Z±. Parallel twy Rwy 04-22 and Rwy 14-32 35' wide.

Seagulls on and invof arpt, Ldg fee, ACTIVATE MIRL Rwv 04-22 and Rwy 14-32, REIL and PAPI Rwy 04, Rwy 22, Rwy 14 and VASI

Rwv 32-CTAF. WEATHER DATA SOURCES: ASOS 121.575 (419) 838-5034.

COMMUNICATIONS: CTAF/UNICOM 123.05

(R) TOLEDO APP/DEP CON 126.1 CINC DEL 125.6 RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

WATERVILLE (L) VOR/DME 113.1 VWV Chan 78 N41°27.09′ W83°38.32′ 048° 9.8 NM to fld. 660/2W.

______ TOLEDO EXPRESS (TOL) 10 W UTC-5(-4DT) N41°35.21′ W83°48.47′

683 B S4 FUEL 100LL, JET A OX 3 LRA Class I, ARFF Index B RWY 07-25: H10599X150 (ASPH-GRVD) S-100, D-174, 2S-175, 2D-300, 2D/2D2-550 HIRL CL

RWY 07: ALSF2. TDZL. Trees. RWY 25: MALSR. VASI(V4L)—GA 3.0° TCH 51'. Trees. 0.3% up.

RWY 16-34: H5599X150 (ASPH-GRVD) S-100, D-174, 2S-175, 2D-300 MIRL

RWY 16: REIL. PAPI(P4L)-GA 3.0° TCH 48'. Trees.

RWY 34- REII

RWY 34: TORA 5599 TODA 5599 ASDA 5599

RUNWAY DECLARED DISTANCE INFORMATION

RWY 07: TORA 10599 TODA 10599 ASDA 10599 LDA 10599 **RWY 16:** TORA 5599 TODA 5599 ASDA 5599 RWY 25: TORA 10599 TODA 10599 ASDA 10599 LDA 10599

ARRESTING GEAR/SYSTEM RWY N7 ←BAK-12 BAK-12 → RWY 25 AIRPORT REMARKS: Attended continuously. Fuel and svc avbl

1300-0500Z‡. Birds and deer on and invof arpt. Twy A west of Rwy 16 and the ramp between Twy B9 and B13 not visible from twr. Customs: Sat-Sun req must be made prior to 2200Z‡ on Fri, phone 419-259-6424.

WEATHER DATA SOURCES: ASOS (419) 865-8351. COMMUNICATIONS: ATIS 118.75 UNICOM 122.95

(R) APP/DEP CON 126.1 (360°-179°) 134.35 (180°-359°) 123.975

TOWER 118.1 GND CON 121.9 CLNC DEL 121.75

AIRSPACE: CLASS C svc continuous ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

WATERVILLE (L) VOR/DME 113.1 VWV Chan 78 N41°27.09′ W83°38.32′

319° 11.1 NM to fld. 664/2W. TOPHR NDB (LOM) 219 TO N41°33.21′ W83°55.27′ O74° 5.5 NM to fld. Unmonitored. NOTAM FILE TOL. ILS 109.7. I-TOL Rwv 07. Class IE. LOM TOPHR NDB.

ILS 108.7 I-BQE Rwy 25. Class IA. LOC unusable 0.4 NM inbound. ILS unmonitored when twr clsd. ASR

LDA 5599

NOTAM FILE TOL

1059

GGG

DETROIT

DETROIT

H-10G, L-28J IAP. AD

IAP

H-10G, L-28J

RWY 16. Trees RWY 34: Trees. AIRPORT REMARKS: Attended irregularly. ACTIVATE NSTD LIRL Rwy 16–34—CTAF. Rwy 16–34 NSTD LIRL; rwy ends marked with 360° green Igts. COMMUNICATIONS: CTAF 122.9 TREMONT CITY MAD RIVER INC (I54) 1 N UTC-5(-4DT) N40°01.20′ W83°49.71′ B S3 TPA-1803(845) NOTAM FILE DAY RWY 09-27: 3405X110 (TURF) LIRL (NSTD) RWY 09: Thid dspicd 340'. Pole. RWY 27: Thid dsplcd 900'. Trees. AIRPORT REMARKS: Attended irregularly. Rwy 09-27 NSTD LIRL; only 2167' Igtd between dsplcd thids. Rwy 09 first 340' not marked: Rwy 27 first 505' not marked: only 2560' marked with orange cones; Rwy 09-27-dsplcd thids marked with cones and one green lgt each side of rwy. Rwy lgts OTS indef. ACTIVATE LIRL Rwy 09-27-122 8 COMMUNICATIONS: CTAF/UNICOM 123.0 DAYTON APP/DEP CON 118.425 (360°-096°) TRI_CITY (See SEBRING) TROY SKYPARK (37I) 4 SW UTC-5(-4DT) N39°59.45′ W84°16.23′ NOTAM FILE DAY RWY 05-23: 3450X100 (TURF) LIRL (NSTD) RWY 05: Thid dspicd 225'. Trees. Rgt tfc. RWY 23: Thid dspicd 985'. Trees. AIRPORT REMARKS: Attended irregularly. ACTIVATE NSTD LIRL Rwy 05-23—CTAF. Rwy 05-23 NSTD LIRL; Rwy 23 end marked with 360° red lgts; Rwy 05-23 dsplcd thld lgtd with one green lgt each side of rwy; Rwy 05-23 marked with white buckets and lights; Rwy 05-23 dsplcd thld marked by green lgts and buckets. COMMUNICATIONS: CTAF 122.9 DAYTON APP/DEP CON 134.45 (181°-359°) ------WACO FLD (1WF) 2 S UTC-5(-4DT) N40°00.89' W84°11.88' NOTAM FILE DAY RWY 18-36: 2428X100 (TURF) RWY 18: Thid dspicd 600'. Tree. RWY 36: Trees. AIRPORT REMARKS: Attended Mon-Fri dawn-dusk. 405' (AGL) lgtd radio antenna 4200' NE of Rwy 18. Rwy 18-36 edges, thids, and dsplcd thid Rwy 18 marked with white barrels.

SEAGATE HELISTOP (6T2) 00 N UTC-5(-4DT) N41°39.25′ W83°31.88′

H1 not marked with "H." Helipad H1 perimeter lgts.

NDB (LOM) 219 TO 074° 5.5 NM to Toledo Express. Unmonitored.

EDDIE DEW MEML AIRPARK (1G8) 2 NW UTC-5(-4DT) N40°28.55′ W80°37.69′

TOPHR N41°33.21′ W83°55.27′ NOTAM FILE TOL.

HELIPORT REMARKS: Unattended. ACTIVATE orange perimeter lgts—CTAF. Helipad H1 NSTD 1-box (2 VASIS). Helipad

NOTAM FILE CLE

COMMUNICATIONS: CTAF/UNICOM 123.05

NOTAM FILE CLE RWY 16-34: 2268X145 (TURF) LIRL (NSTD)

COMMUNICATIONS: CTAF 122.9

(See MARYSVILLE)

UNIVERSITY N39°15.44′ W82°07.56′ NOTAM FILE DAY.

NDB (MHW) 250 UGS 247° 5.5 NM to Ohio University Snyder Fld.

UNION CO

HELIPAD H1: H50X50 (CONC)

EC. 23 SEP 2010 to 18 NOV 2010

DETROIT

DETROIT

DETROIT

DETROIT

CINCINNATI

CINCINNATI

CINCINNATI

L-29B

TRNY

262

650

TORONTO

IIPPFR SANDIISKY WYANDOT CO (56D) 4 NW UTC-5(-4DT) N40°53.00′ W83°18.87′

NOTAM FILE CLE RWY 18-36: H3997X75 (ASPH) S-12 5 MIRI RWY 36. P_line

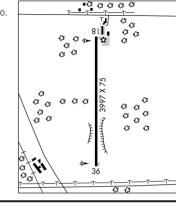
COMMUNICATIONS: CTAF 122.9

AIRPORT REMARKS: Unattended, ACTIVATE MIRL Rwv 18-36-123,050.

(R) MANSFIELD APP/DEP CON 124.2 (1100-0400Z‡) R CLEVELAND CENTER APP/DEP CON 135.1 (0400-1100Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE FDY.

FINDLAY (L) VORTAC 108.2 FDY Chan 19 N40°57.32' W83°45.36' 104° 20.5 NM to fld. 820/2W.



URBANA GRIMES FLD

1068 B S2 FUEL 100LL, JET A TPA-1868(800) NOTAM FILE DAY RWY 02-20: H4400X100 (ASPH) MIRL RWY 20: REIL. PAPI(P4L). Tree.

(I74) 1 N UTC-5(-4DT) N40°07.96′ W83°45.21′

RWY 02: REIL. PAPI(P4R). Tree. AIRPORT REMARKS: Attended Mon-Fri 1300-2130Z‡, Sat-Sun irregularly. Deer and birds on and invof arpt. ACTIVATE

MIRL Rwv 02-20: REIL Rwvs 02 and 20-CTAF. WEATHER DATA SOURCES: AWOS-3 118.325 (937) 484-5863. COMMUNICATIONS: CTAF/UNICOM 122.7

R DAYTON APP/DEP CON 118.425 (360°-090°)

RADIO AIDS TO NAVIGATION: NOTAM FILE DAY. ROSEWOOD (H) VORTAC 117.5 ROD Chan 122 N40°17.27′ W84°02.59′ 130° 16.2 NM to fld. 1080/5W. WELLER (38I) 3 SE UTC-5(-4DT) N40°05.47′ W83°41.36′

NOTAM FILE DAY RWY 09-27: 2534X75 (TURF) RWY N9. Trees RWY 27. P-line AIRPORT REMARKS: Attended irregularly. Rwy 09-27 outlined with yellow tires. Trees on both sides of rwy at W end. Trees W of twy and S of rwy.

COMMUNICATIONS: CTAF/UNICOM 123.0

VAN WERT CO (VNW) 2 SW UTC-5(-4DT) N40°51.88′ W84°36.57′ FUEL 100LL, JET A TPA-1597(812) NOTAM FILE DAY RWY 09-27: H4000X75 (ASPH) S-8 MIRL RWY 09: REIL. PAPI(P4L), P-line. RWY 18-36: 2610X105 (TURF)

RWY 18: Thid dsplcd 315'. Tree.

1500-2200Z‡, Sun 1700-2300Z‡. Parachute Jumping. Ultralights opr evenings, weekends and in no-wind conditions. Rwy 09 REIL OTS indef. Rwy 18 and Rwy 36 dsplcd thld marked with white L-shaped 2'×6' concrete pads. Major airframe repairs. ACTIVATE MIRL Rwy 09-27 and REIL and PAPI Rwy 09 and Rwy 27-CTAF. WEATHER DATA SOURCES: AWOS-3 125.175 (419) 232-2967. COMMUNICATIONS: CTAF/UNICOM 123.0 R FORT WAYNE APP/DEP CON 132.15 (SE-NE of active rwy) 127.2 (SW-NW of active rwy) RADIO AIDS TO NAVIGATION: NOTAM FILE FWA.

RWY 27: REIL. PAPI(P4L). Trees.

RWY 36: Thid dsplcd 510', P-line.

AIRPORT REMARKS: Attended Apr-Oct Mon-Sat 1400-2300Z‡, Sun by prior arrangement, Nov-Mar Mon-Sat

FORT WAYNE (H) VORTACW 117.8 FWA Chan 125 N40°58.74′ W85°11.28′ 104° 27.2 NM to fld. 793/00E. STANLEY NDB (MHW) 411 VFU N40°51.75′ W84°36.83′ at fld. NOTAM FILE DAY. COMM/NAV/WEATHER REMARKS: Approach control sectorization based upon Fort Wayne rwy usage.

EC. 23 SEP 2010 to 18 NOV 2010

NDB (MHW) 356 VES at Darke Co. Unmonitored. OTS indef.

VERSAILLES N40°12.37′ W84°31.36′ NOTAM FILE DAY.

DETROIT 1-27F IAP

DETROIT

IAP

L-28J. 29A

DETROIT

DETROIT L-27E IAP

DETROIT

L-27E

FUEL 100LL, JET A+

VFRSAILLES

1007 R S3

DARKE CO 2 SW UTC-5(-4DT) N40°12.27′ W84°31.92′ (VES)

RWY 09-27: H4512X75 (ASPH) S-12 5

NOTAM FILE DAY

UTC-5(-4DT) N41°00.19' W81°45.39'

RWY 09: REIL. PAPI(P2L). Road.

AIRPORT REMARKS: Attended dawn-dusk. FBO CLOSED on major holidays. CAUTION: Deer occasionally on rwy. ACTIVATE MIRL Rwy 09-27: REIL Rwys 09 and 27-CTAF.

WEATHER DATA SOURCES: AWOS-3 123.75 (937) 526-3154. COMMUNICATIONS: CTAF/UNICOM 122.8

R DAYTON APP/DEP CON 134.45 (181°-359°) RADIO AIDS TO NAVIGATION: NOTAM FILE DAY.

DAYTON (L) VOR/DME 114.5 DON Chan 92 N40°00.99'

RWY 27: REIL. PAPI(P2L). Acft.

W84°23.81' 332° 12.9 NM to fld. 990/1W.

VERSAILLES NDB (MHW) 356 VES N40°12.37′ W84°31.36′ at fld. Unmonitored. OTS indef.

3 3

DETROIT

L-27E

DETROIT L-29B

IAP

C3

DETROIT

IAP

VINTON CO (See McARTHUR)

WACO FLD (See TROY)

WADSWORTH

WADSWORTH MUNI

(3G3) 2 SW FUEL 100LL, JET A1+

NOTAM FILE CLE RWY 02-20: H3529X75 (ASPH) MIRL RWY 02: VASI(V2R)-GA 3.5° TCH 27'. Thid dspicd 129'. Tree.

RWY 20: VASI(V2L)-GA 3.5°TCH 48'. P-line. RWY 10-28: H2392X35 (ASPH) 0.4% up E

RWY 10: Tree. RWY 28: Thid dspicd 237'. Tree. AIRPORT REMARKS: Attended 1300-2300Z‡. Arpt unattended all Federal

CLOSED for tkf when wind is less than 15 knots from the E. Gliders use rgt tfc to Rwy 10. CAUTION: Glider activity use Rwy 10-28. Rwy 20 calm rwy blo 4 knots for noise abatement. Avoid

Holidays. No line of sight between rwy 02 and 10. Rwy 10

hospital to the north, ACTIVATE MIRL Rwy 02-20 and VASI Rwy 02 and Rwy 20-CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8 (R) AKRON-CANTON APP/DEP CON 118.6 (1100-0500Z±)

R CLEVELAND CENTER APP/DEP CON 134.9 (0500-1100Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE CAK.

AKRON (L) VOR/DME 114.4

ACO Chan 91 N41°06.47' W81°12.09' 260° 26 NM to fld. 1194/4W.

G G -392 X 350[∞] Sewage Treatment 03 Ø €3 43 **(3** €3 63 Ø 'n

WELTZIEN SKYPARK (15G) 3 W UTC-5(-4DT) N41°01.70′ W81°47.91′ В **S4 FUEL** 80, 100LL TPA-2000(790) NOTAM FILE CLE RWY 03-21: H2410X37 (ASPH) LIRL(NSTD)

RWY 03: Thid dspicd 178'. Trees. RWY 21: PVASI (PSIL), Thid dsplcd 50', Trees. AIRPORT REMARKS: Attended continuously. Pavement strength limit to 6500 pounds per arpt manager. Rwy 03-21 no

touch and go ldgs. ACTIVATE NSTD LIRL Rwy 03-21-CTAF. Rwy 03-21 NSTD LIRL due to spacing and not FAA approved L-800 series.

COMMUNICATIONS: CTAF/UNICOM 123.05

LOC only. ILS OTS indef. DME OTS indef.

S4 FUEL 100LL NOTAM FILE CLE RWY 03-21: H3800X55 (ASPH) LIRL (NSTD)

3 NE UTC-5(-4DT) N41°17.59′ W82°22.24′

FUEL 100LL, JET A1+ OX 3 TPA-1903(990) NOTAM FILE DAY

EC. 23 SEP 2010 to 18 NOV 2010

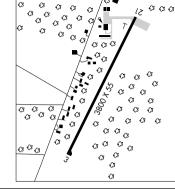
RWY 03. Tree RWY 21: Trees. AIRPORT REMARKS: Attended Mon-Sat 1300Z±-dusk. Sun

1400Z‡-dusk. ACTIVATE NSTD LIRL Rwy 03-21-CTAF. Rwy 03-21 thid lgts offset, Rwv 03-21 NSTD LIRL, Rwv 21 lgts are

located 135' up rwy COMMUNICATIONS: CTAF/INICOM 122 8

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. DRYER (H) VOR/DME 113.6 DJB Chan 83 N41°21.48' W82°09.72' 253° 10.2 NM to fld. 780/5W.

(164)



WAPAKONETA **NEIL ARMSTRONG**

RWY 08-26: H5500X100 (ASPH-GRVD) MIRL

WAKEMAN

RWY 08: Thid dsplcd 700'. Trees. RWY 26: REIL. VASI(V2L)—GA 3.0 TCH 53'. Thid dsplcd 237'. Road.

RWY 18: Thid dspicd 290'. Road. RWY 36: Trees. AIRPORT REMARKS: Attended 1300-2200Z±, Rwy 18-36 CLOSED indef, Rwy 18-36 surface rough and uneven. ACTIVATE MIRL Rwy 08-26 and REIL Rwy 26-122.7.

RWY 18-36: 2631X80 (TURF)

(AXV)

WEATHER DATA SOURCES: AWOS-3 128.325 (419) 753-2821. COMMUNICATIONS: CTAF/UNICOM 122.8 ROSEWOOD RCO 122.1R 117.5T (DAYTON RADIO)

(R) DAYTON APP/DEP CON 118.425 (360°-090°) RADIO AIDS TO NAVIGATION: NOTAM FILE DAY. ROSEWOOD (H) VORTAC 117.5 ROD Chan 122 N40°17.27′ W84°02.59′ Rwy 26.

ILS/DME 109.15 I-AXV Chan 28Y

WARREN (62D) 5 NW UTC-5(-4DT) S2

N41°16.02′ W80°55.64′ FUEL 100LL NOTAM FILE CLE RWY 04-22: H2907X30 (ASPH) LIRL (NSTD)

RWY 04: Thid dspicd 87'. Trees. RWY 22: Thid dsplcd 578'. Trees. RWY 18-36: 2700X140 (TURF) RWY 18: Trees. RWY 36: Trees. AIRPORT REMARKS: Attended irregularly, ACTIVATE NSTD LIRL Rwy 04-22-123.3, Rwy 04-22 NSTD LIRL; Rwy 04 no

rwy end lgts; Rwy 22 dsplcd thid wrong color, Rwy 18 marked with yellow buckets, Rwy 04-22 LIRL OTS indef.

COMMUNICATIONS: CTAF/UNICOM 122.8 WASHINGTON COURT HOUSE

FAYETTE CO (123) 2 NE UTC-5(-4DT) N39°34.23′ W83°25.23′ FUEL 100LL, JET A, MOGAS TPA-1780(800) NOTAM FILE DAY RWY 05-23: H5097X75 (ASPH) S-30, D-40 MIRI

RWY 23: REIL. PAPI(P4L). Railroad. AIRPORT REMARKS: Attended Mon-Sat 1300-2300Z‡. ACTIVATE MIRL Rwy 05-23-CTAF. WEATHER DATA SOURCES: AWOS-3 118.775

COMMUNICATIONS: CTAF/UNICOM 122.8

R COLUMBUS APP/DEP CON 132.3 134.35 RADIO AIDS TO NAVIGATION: NOTAM FILE FFO.

MIDWEST (T) VORW/DME 112.9 MXQ Chan 76 N39°25.78′ W83°48.07′ COURT HOUSE NDB (MHW) 414 CSS N39°36.05′ W83°23.50′ 222° 2.3 NM to fld. NOTAM FILE DAY. NDB unusable 115°-165° bvd 20 NM.

8 SW UTC-5(-4DT) N40°29.61' W84°17.89'

DETROIT H-10G, L-27E ΙΑΡ

265

DETROIT

1-30F

322° 17 NM to fld. 1080/5W.

DETROIT

CINCINNATI

H-10G, L-29A

068° 19.6 NM to fld. 1050/4W.

IAP

WATERVILLE N41°27.09′ W83°38.32′ NOTAM FILE CLE DETROIT (L) VOR/DME 113.1 VWV Chan 78 319° 11.1 NM to Toledo Express. 664/2W. H-10G, L-28J RCO 122.1R 113.1T (CLEVELAND RADIO) WAUSEON **FULTON CO** (USF) 4 N UTC-5(-4DT) N41°36.61′ W84°07.63′ DETROIT 779 S4 FUEL 100LL, JET A, A1+ NOTAM FILE CLE 1-281 RWY 09-27: H3882X75 (ASPH) S-30 LIRL IAP RWY 09: REIL, PAPI(P4L), Road. RWY 27: REIL, PAPI(P4R), Trees, Rgt tfc. RWY 18-36: 2117X75 (ASPH-TURF) RWY 18: Trees. RWY 36: Tree. AIRPORT REMARKS: Attended Mon-Sat 1300Z‡-dusk, Sun €3 1500Z‡-dusk. 100LL self serve. Rwy 18-36 359' of center section paved. First 270' of Rwy 18 turf and first 1328' of Rwy 36 Cultivated turf. Deer occasionally on rwy. Twy clsd indef. Rwy 27 REIL OTS indef. ACTIVATE LIRL Rwv 09-27; REIL Rwvs 09 and 27; PAPI Rwv 3882 X 75 ≯ 09 and Rwy 27—CTAF. COMMUNICATIONS: CTAF/UNICOM 123.0 €3 ය ය Cultivated R TOLEDO APP/DEP CON 134.35 Ø RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. WATERVILLE (L) VOR/DME 113.1 VWV Chan 78 N41°27.09' W83°38.32' 296° 24 NM to fld. 660/2W. NDB (MHW) 375 USE N41°36.55′ W84°07.96′ at fld. WAVERLY N39°10.02′ W82°55.93′ NOTAM FILE DAY. CINCINNATI NDB (MHW) 385 EOP at Pike Co. NDB unusable bvd 15 NM. L-29A WAVERLY PIKE CO 3 NE UTC-5(-4DT) N39°10.02′ W82°55.69′ CINCINNATI FUEL 100LL, JET A NOTAM FILE DAY I-29A IAP RWY 07-25: H4900X75 (ASPH) S-58 MIRL RWY 07: REIL. PAPI(P4L)-GA 4.0° TCH 37'. Tree. RWY 25: REIL. PAPI(P4L)-GA 3.0° TCH 25'. Tree. aga^a AIRPORT REMARKS: Attended Mon-Fri 1300-2130Z‡. 24 hr credit card self svc avbl. Deer on and invof arpt. ACTIVATE MIRL Rwy 07-25-CTAF, PAPI Rwy 07 and Rwy 25 on dusk-dawn. WEATHER DATA SOURCES: AWOS-A 118.4. COMMUNICATIONS: CTAF/UNICOM 123.0 €3 (R) INDIANAPOLIS CENTER APP/DEP CON 135.575 C RADIO AIDS TO NAVIGATION: NOTAM FILE LOU. ß YORK (L) VORTAC 112.8 YRK Chan 75 N38°38.65'

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OHIO

WAYNE CO (See WOOSTER)

WAVERLY NDB (MHW) 385 EOP

W82°58.70′ 009° 31.4 NM to fld. 1040/5W.

fld. NOTAM FILE DAY. NDB unusable byd 15 NM.

266

N39°10.02′ W82°55.93′

at

RED STEWART AIRFIELD (401) 4 W UTC-5(-4DT) N39°30.32′ W84°07.31′ RWY 08-26: 3142X150 (TURF) RWY NR. Crons

WAYNESVILLE

AIRPORT REMARKS: Attended 1300Z‡-dusk. Transient tfc 1 Jan-15 Apr notification required for rwy condition prior to arrival 513-897-7717. Rwys and aprons fair rolling turf; sod N and S of rwy used as twy. Banner towing and gliders on and invof arpt. Glider operations on N taxiway. Rwy 26 dsplcd thld marked with 3 outboard cones on each side of rwy. Rwy 08-26 marked with vellow cones. COMMUNICATIONS: CTAF 122.9

FUEL 100LL

DAYTON APP/DEP CON 126.5 (091°-180°)

NOTAM FILE DAY

RWY 26: Thid dspicd 540'. Tree.

WEIKER (See GREEN SPRINGS) WELLER (See URBANA)

WELLINGTON

TPA-1650(786)

RWY 18-36: 2850X100 (TURF) RWY 18: Trees. RWY 36: Trees.

usable for ngt ons COMMUNICATIONS: CTAF 122.9

WELTZIEN SKYPARK (See WADSWORTH)

NDB (MHW) 359 AMT

WEST UNION N38°51.36′ W83°33.83′ ALEXANDER SALAMON (AMT)

at Alexander Salamon, NDB OTS indef. WFST UNION 4 NW **FUEL** 80, 100LL

UTC-5(-4DT) N38°51.09′ W83°33.98′ RWY 05-23: H3762X65 (ASPH) MIRL

NOTAM FILE DAY 0.3% up NE RWY 23: REIL, PAPI(P4L)-GA 3.0° TCH 30', Trees. 23 and REIL Rwy 23-CTAF. COMMUNICATIONS: CTAF/UNICOM 122.8

R INDIANAPOLIS CENTER APP/DEP CON 135.575 RADIO AIDS TO NAVIGATION: NOTAM FILE LOU. YORK (L) VORTAC 112.8 WEST UNION NDB (MHW) 359 AMT

WILLARD (8G1) 1 S UTC-5(-4DT) FUEL 100LL NOTAM FILE CLE MIRL RWY 10-28: H4028X65 (ASPH) 0.8% un W

(R) MANSFIELD APP/DEP CON 124.2 (1100-0400Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE MFD. MANSFIELD (L) VORTAC 108.8

(See BRYAN)

RWY 10: Thid dsplcd 300'. Building.

10-28-CTAF. COMMUNICATIONS: CTAF 122.9

WILLIAMS CO

YRK Chan 75 N38°38.65′ W82°58.70′ N38°51.36′ W83°33.83′ N41°02.33' W82°43.47'

MANSFIELD RCO 122.6 122.1R 108.8T (CLEVELAND RADIO)

AIRPORT REMARKS: Attended Mon-Sat dalgt hrs. Fuel avbl 24 hrs—credit card. ACTIVATE MIRL Rwy 05-23; PAPI Rwy

AIRPORT REMARKS: Attended Apr-Nov Wed, Sat-Sun dalgt hrs. Arpt CLOSED 1 Dec to 30 Apr. Glider ops. Monitor glider activities on CTAF. Rwy 18-36 lgtd thld Rwy 18 relocated 375'; Rwy 36 relocated 800'; 1825' Rwy 18-36

NOTAM FILE CLE

NOTAM FILE DAY.

READER-BOTSFORD (67D) 00 SE UTC-5(-4DT) N41°09.75′ W82°12.16′

RWY 28: Thid dspicd 610'. Trees. AIRPORT REMARKS: Attended Mon-Sat 1300-2200Z‡. For fuel after hrs call 567-224-2492. ACTIVATE MIRL Rwy

MFD Chan 25 N40°52.12′ W82°35.46′

299° 30.3 NM to fld. 1040/5W.

at fld. NOTAM FILE DAY. OTS indef.

CLEVELAND CENTER APP/DEP CON 134.9 (0400-1100Z±)

CINCINNATI L-26G

CINCINNATI L-26G IAP

267

CINCINNATI

DETROIT

DETROIT I-29A

ΙΑΡ

332° 11.9 NM to fld. 1210/3W.

S4 **FUEL** 100LL, JET A OX 1, 2

RWY 05-23: H5028X100 (ASPH) S-68, D-80, 2D-124 MIRL

WILLOUGHBY LOST NATION MUNI (LNN)

RWY 10: REIL. PAPI(P2L), Trees.

R

RWY 05: REIL. PAPI(P4R). Thid dsplcd 428'. Pole. RWY 23: REIL. PAPI(P4L). Trees. RWY 10-28: H4272X100 (ASPH) S-68, D-80, 2D-124 MIRL

3 N UTC-5(-4DT)

NOTAM FILE CLE

RWY 28: REIL. PAPI(P2L). Thid dspicd 1124'. Poles.

at fld. NDB unmonitored.

N41°41.04′ W81°23.39′

320° 14.3 NM to fld. 1310/5W.

DETROIT

ΙΔΡ

H-10G, L-30G

and holidays 0400-1400Z‡. Deer and Birds on and invof arpt. Rwy 05 REIL OTS indef. Rwy 23 PAPI OTS indef.

AIRPORT REMARKS: Attended 1200-0200Z±. For arpt attendance or fuel sys after hrs call 440-942-7092 from 0400-1100Z‡ for prior arrangements. Multiple practice ldg and tkf prohibited Mon-Fri 0400-1300Z‡; Sat-Sun

Rwy 23 REIL OTS indef. ACTIVATE MIRL Rwy 05-23 and Rwy 10-28; REIL Rwys 05; Rwy 23; Rwy 10 and Rwy 28; and PAPI Rwys 05; Rwy 23; Rwy 10 and Rwy 28-CTAF. Ldg fee for all commercial acft by weight; multi-engine

and larger. COMMUNICATIONS: CTAF/UNICOM 122.725 (R) CLEVELAND APP/DEP CON 125.35

RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. CHARDON (H) VOR/DME 112.7 CXR Chan 74 N41°31.02′ W81°09.79′

LAKELAND NDB (MHW) 263 LQL N41°40.94′ W81°22.74′

COMM/NAV/WEATHER REMARKS: UNICOM freq unmonitored May-Sep (0300-1200Z‡); Oct-Apr (0200-1200Z‡). For IFR clearance ctc Cleveland apch control at 216-898-2040.

WILMINGTON AIRBORNE AIRPARK (ILN) 2 SE UTC-5(-4DT) N39°25.68' W83°47.53' CINCINNATI Class IV, ARFF Index A B S4 FUEL JET A OX 1. 2 NOTAM FILE ILN H-10G, L-27E RWY 04L-22R: H10701X150 (CONC-GRVD) S-100, D-200, 2S-175, 2D-390, 2D/2D2-750 HIRL CL ΙΔΡ RWY 04L: MALSR. PAPI(P4L)-GA 3.0° TCH 62'. RWY 22R: ALSF-2. TDZL. PAPI(P4L)-GA 3.0° TCH 71'.

0.4% down. RWY 04R-22L: H9000X150 (CONC-GRVD) S-100, D-200, 2S-175. 2D-390, 2D/2D2-750 HIRL CL RWY 04R: MALSR. PAPI(P4L)—GA 3.0° TCH 71'. 0.3% up. RWY 22L: ALSF2. TDZL. PAPI(P4L)-GA 3.0° TCH 71'. 0.4% down. RUNWAY DECLARED DISTANCE INFORMATION

RWY 04L: TORA-10701 TODA-10701 ASDA-10701 LDA-10701 RWY 04R: TORA-9000 TODA-9000 ASDA-9000 LDA-9000 RWY 22L: TORA-9000 TODA-9000 ASDA-9000 LDA-9000 RWY 22R: TORA-10701 TODA-10701 ASDA-10701 LDA-10701 AIRPORT REMARKS: Attended Mon-Fri 1300-2200Z‡. Closed to scheduled air carrier ops with greater than 9 passenger seats and unscheduled air carrier ops greater than 30 passenger seats. 90-day PPR, call arpt manager 937-366-2282. Rwy 04L-22R has 1000' paved area on SW end and 200' paved area on NE end. Rwy 04R-22L has 200' paved area on each end. For HIRL

Rwy 04L-22R and Rwy 04R-22L when twr clsd contact ops on 119.47. Rwy 04R touchdown, midpoint and rollout RVR avbl. Rwy 22L touchdown, midpoint and rollout RVR avbl. Four hrs PPR for all transient acft call arpt manager 937-366-2282 during operating hrs. After hrs call flight control 937-366-2441, Ldg fee, U.S. Customs user fee arpt. WEATHER DATA SOURCES: ASOS (937) 383-7334.

COMMUNICATIONS: CTAF 119.475 ATIS 124.925 R DAYTON APP/DEP CON 126.5 (091°-180°) 118.85 127.225

WILMINGTON TOWER 119.475, 125.6 (04R-22L in instrument meteorological conditions) Mon 1200-Sat 2300Z‡, Sun 1100-23007+

GND CON 121.6 CLNC DEL 125.6 AIRSPACE: CLASS D svc Mon 1200Z‡-Sat 2300Z‡, Sun 1100-2300Z‡; other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE ILN.

MIDWEST (T) VORW/DME 112.9 MXQ Chan 76 N39°25.78′ W83°48.07′ at fld. 1050/4W.

Unmonitored when twr clsd.

AIRBO NDB (MHW/LOM) 407 IL N39°29.58′ W83°44.29′ 217° 4 6 NM to fld Unmonitored Sat-Sun 2300-1100Z‡ and Sun 2300 til Mon 1200Z‡.

CUBLA NDB (MHW/LOM) 299 HW N39°21.21′ W83°52.55′ 045° 5.9 NM to fld. ILS 110.7 Rwy 04L. LOM CUBLA NDB. Unmonitored when twr clsd. LOC unusable byd 15° left or I-HWM

right of course.

ILS/DME 109.35 I-IYV Chan 30(Y) Rwv 04R. Class IT. Unmonitored when twr clsd.

I-ILN Rwy 22R. Class IIIE. LOM AIRBO NDB. Unmonitored when twr clsd. ILS/DME 109.35 I-RHX Chan 30(Y) Rwy 22L. Unmonitored when twr clsd. COMM/NAV/WEATHER REMARKS: Emergency frequency 121.5 not avbl at twr.

B S4 FUEL 100LL, JET A NOTAM FILE DAY 1033 RWY 03-21: H3579X65 (ASPH) S-12.5 MIRL 0.3% up NE RWY 03: PAPI(P2L)-GA 3.0° TCH 20'. Trees. RWY 21: PAPI(P2L)-GA 3.75° TCH 20'. Trees.

4 NW

CLINTON FLD

1090

WOOD CO

WOODSFIELD MONROE CO

WOOSTER WAYNE CO

> 1136 В S4

(166)

COMMUNICATIONS: CTAF/UNICOM 123.0

NOTAM FILE DAY RWY 05-23: 3203X80 (TURF) RWY 05: Thid dspicd 92', Crops.

RWY 13-31: 2670X80 (TURF) RWY 13: Thid dsplcd 250'. Fence.

COMMUNICATIONS: CTAF 122.9

(4G5)

RWY 07: Thid dspicd 173'. Trees.

COMMUNICATIONS: CTAF/UNICOM 122.8

R CLEVELAND CENTER APP/DEP CON 120.4 RADIO AIDS TO NAVIGATION: NOTAM FILE CLE.

(BJJ)

RWY 10: REIL. Trees.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE FFO. MIDWEST (T) VORW/DME 112.9

(See BOWLING GREEN)

RWY 07-25: H3805X75 (ASPH) S-18 MIRL

BELLAIRE RCO 122.1R 117.1T (CLEVELAND RADIO)

AIRPORT REMARKS: Attended May-Sep 1300-0100Z‡, Oct-Apr 1300-2200Z‡. Fuel Jet A unavbl indef. FBO closed

MXQ HOLLISTER FLD (2B6) 5 E UTC-5(-4DT) N39°26.25′ W83°42.50′

Thanksgiving; Christmas and Easter. After hrs call 937-725-2782. Deer and birds on and invof arpt. ACTIVATE

UTC-5(-4DT) N39°30.15′ W83°51.80′

MIRL Rwv 03-21 and PAPI Rwv 03 and Rwv 21-CTAF.

Chan 76

1 N UTC-5(-4DT) N39°46.74′ W81°06.17′

RWY 25: REIL. Trees.

N40°52.49′ W81°53.30′

1400-0000Z‡, Rwy 28 VASI unusable byd 8° left of centerline. HIRL Rwy 10-28 preset low ints dusk-dawn; to

RWY 28: REIL. VASI(V4R)-GA 3.0° TCH 33'. Thid dspicd 218'. Road.

CLNC DEL 121.75

OX 4 NOTAM FILE BJJ

0.5% up E

Chan 71 N40°44.44′ W81°25.93′

EC. 23 SEP 2010 to 18 NOV 2010

AIRPORT REMARKS: Attended Nov-Apr 1300-2200Z‡, May-Oct Mon-Fri 1200-0000Z‡, May-Oct Sat-Sun

FUEL 80, 100LL NOTAM FILE CLE

AIRPORT REMARKS: Attended irregularly. For fuel call 740-472-1882. ACTIVATE MIRL Rwy 07-25; rotating bcn and REIL Rwy 25-CTAF.

BELLAIRE (H) VOR/DME 117.1 AIR Chan 118 N40°01.02' W80°49.04' 230° 19.4 NM to fld. 1290/7W.

6 NE UTC-5(-4DT)

FUEL 100LL, JET A1+

increase ints and ACTIVATE REIL Rwv 10 and Rwv 28-CTAF. WEATHER DATA SOURCES: ASOS 118.075 (330) 669-9105.

BSV

RWY 10-28: H5191X100 (ASPH) S-30 HIRL

R AKRON-CANTON APP/DEP CON 118.6 (1100-0500Z†)

R CLEVELAND CENTER APP/DEP CON 134.9 (0500-1100Z‡) RADIO AIDS TO NAVIGATION: NOTAM FILE CLE. BRIGGS (L) VOR/DME 112.4

RWY 23: Thid dsplcd 565', P-Line.

RWY 31: Thid dsplcd 732'. Fence. AIRPORT REMARKS: Attended dalgt hrs. Rwy 13-31 CLOSED indef. CAUTION—pheasants released N side of rwy for hunting Sep-Apr. Model acft radio-control area S of Rwy 23. Call for rwy conditions prior to Idg from Nov-Apr. Rwy 05-23 dspld thids marked with white tires. Rwy 13-31 dsplcd thids marked with white tires.

WEATHER DATA SOURCES: AWOS-3 124.175 (937) 382-1376. R DAYTON APP/DEP CON 126.5 (091°-180°) 118.85 127.225

N39°25.78′ W83°48.07′ 331° 5.2 NM to fld 1050/4W.

CINCINNATI

CINCINNATI

L-29B

IAP

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DETROIT

IAP

H-10G, L-29B

والأسال Fair Ground 11.5

295° 22.3 NM to fld. 1230/4W.

269

1-27F

IAP

WRIGHT PATTERSON AFB (FFO) (KFFO) AF (AFRC) 8 NE UTC-5(-4DT) N39°49.56′ W84°02.77′ CHICAGO TPA—See Remarks NOTAM FILE FFO 823 R Not insp. RWY 05L-23R: H8717X300 (PEM-GRVD) PCN 102 R/B/W/T HIRL

RWY 05L: PAPI(P4L)-GA 3.0° TCH 50'. RWY 23R: ALSF1. PAPI(P4R)-GA 3.0° TCH 50'. Rgt tfc. RWY 05R-23L: H7000X150 (ASPH) PNC 119 R/B/W/T MIRI

RWY 05R: PAPI(P4L). RWY 23L: PAPI(P4L). RUNWAY DECLARED DISTANCE INFORMATION

RWY 05L: TORA-12601 TODA-12601 RWY 05R: TORA-7000 TODA-7000 RWY 23L: TORA-7000 TODA-7000 RWY 23R: TORA-12601 TODA-12601 ARRESTING GEAR/SYSTEM

270

MILITARY SERVICE: A-GEAR Rwy 05L-23R south end arresting gear located 864' s of dsplcd thld.

JASU 9(A/M32A-86) 1(MC-1A) 4(AM32-95) (8)(A/M32A-60A) OIL 0-148-156 SOAP Avbl weekdays 1200-2130Z‡ except Federal holiday.

avbl other times with 24 hr prior notice to Base OPS. Fleet svc avbl 2 hr prior notice. Payment rgr by Avcard.

COMMUNICATIONS: ATIS 124.475 269.9 PTD 122.85 372.2 R DAYTON APP CON 126.5 327.1 (091°-180°) 118.85 127.225

AIRSPACE: CLASS D svc continuous other times CLASS E. RADIO AIDS TO NAVIGATION: NOTAM FILE FFO. SPRINGFIELD (T) VORW/DME 113.2

Rwv 23R.

(See UPPER SANDUSKY)

at Pickaway Co Meml.

SGH

Rwy 05L. Glids slope not avbl.

PATTERSON TOWER 126.9 281.45

PATTERSON (T) TACAN Chan 99

I-FAF

I-FFO

RCO 122.1R 112.5T (DAYTON RADIO)

Positive ident of ILS prior to flying apch.

(See MOUNT VERNON) YELLOW BUD N39°31.61′ W82°58.68′

visibility.)

ILS 109.7

IIS 109 7

(T) VOR 112.5 XUB

WYANDOT CO

WYNKOOP

(R) DAYTON DEP CON 126.5 327.1 (091°-180°) 445A W AFRC COMD POST (BUCKEYE CON) 349.4

to acft except C-130 and C-17. AFRC 445 AW opr Mon-Fri and training weekend 1200-0330Z±.

GND CON 121.8 335.8

briefing DSN 576-9755, C618-256-9755. Reported prevailing visibility may not represent entire afld due to obstruction from observation point; observation point obstruction from 050°-210°. Touchdown visibility not obstruction. ATC will enhance sfc observation when visibility less than 4 SM and different from reported

Chan 79 N39°50.19′ W83°50.70′

FFO (115.2) N39°49.14' W84°03.33' at fld. 804/4W.

COMM/NAV/WEATHER REMARKS: ILS Rwy 05L and 23R opr on same frequency 109.7, but different ident (I-FAE, I-FFO).

NOTAM FILE DAY

EC. 23 SEP 2010 to 18 NOV 2010

FUEL J8

MILITARY REMARKS: See FLIP AP/1 Supplementary Arpt Remarks. RSTD Aerodrome PPR. Ctc Base Ops DSN 787-2131, C937-257-2131. All dep acft fly rwy heading until 1800' unless twr approves otherwise. Inbound acft with VIP ctc Base OPS on PTD 30 minutes prior to arrival. Arm/de-arm area S end Twy B clsd. Portion of Twy A located

PMSV METRO 344.6 (Tran aircrews ctc 15th OWS for weather

270° 9.3 NM to fld. 1047/4W.

TRAN ALERT Opr 1000-0500Z‡,

FLUID SP PRESAIR LHOX LOX

BAK-14 BAK-12B(B) (1740') RWY 23R

NE of the south entrance to the W Ramp is permanently clsd. Twy A1 entrance to the W Ramp is permanently

clsd. CAUTION Bird Watch Condition Phase I (Nov-Jun) indicates let bird activity. Phase II (Jul-Oct) indicates heavy bird activity normally associated with migratory season. Portions of the flameout and overhead tfc pat not visible

from twr. Unlgtd obstructions surround afld. Multiple crane ops 2.7 NM southwest of KFFO, 1171' MSL and blo. TFC PAT TPA-Rectangular tactical/trainer 2800(1977), other turbojet/turboprop 2300(1477), lgt reciprocating engine acft (12,500 lb or blo gross weight) 1800(977), overhead 2800(1977). CSTMS/AG/IMG Ltd CSTMS avbl. 24

H-10G I-27F

DIAP. AD

C937-257-2131. Expect dep from Rwy 23 R at Twy B intersection 11600' avbl. if full length rgr. request

hr prior notice for CSTMS requests. Call DSN: 787-2131 COM: 937-257-2131. MISC Base OPS DSN 787-2131, back-taxi from twr. Standard RSRS applied. Twy B from north of the restricted area to apch end of Rwy 23L clsd

CINCINNATI

L-29A

YOUNGSTOWN LANSDOWNE

1044

(Ø4G) 2 NE UTC-5(-4DT) N41°07.83′ W80°37.18′ NOTAM FILE CLE RWY 02-20: H3073X50 (ASPH) S-7.5 0.9% up N

RWY 20: Trees. RWY N2. Trees

AIRPORT REMARKS: Unattended, Arpt CLOSED indef, Rwy 02-20 vegetation in cracks, last 500' Rwy 12 depressions in

pavement. Ramp in poor condition; breaking pavement.

WEATHER DATA SOURCES: HIWAS 109.0 YNG. COMMUNICATIONS: CTAF/UNICOM 122.8

R YOUNGSTOWN APP/DEP CON 133.95 (1100-0500Z‡) (R) CLEVELAND CENTER APP/DEP CON 120.775 (0500-1100Z‡)

RADIO AIDS TO NAVIGATION: NOTAM FILE YNG.

2AWIH

YOUNGSTOWN (L) VORTAC 109.0 YNC Chan 27 N41°19.86' W80°40.48' 173° 12.3 NM to fld. 1160/5W.

HUBBARD NDB (MHW) 408 HBD N41°09.17′ W80°31.89′ 259° 4.2 NM to fld. NOTAM FILE CLE.

RWY 10-28: H4012X50 (ASPH) MIRL 1.4% up E

R AKRON-CANTON APP/DEP CON 125.5 (1100-0500Z‡)

R CLEVELAND CENTER APP/DEP CON 128.15 (0500-1100Z±) RADIO AIDS TO NAVIGATION: NOTAM FILE CAK.

AKRON (L) VOR/DME 114.4 ACO Chan 91 N41°06.47' W81°12.09' 114° 25.4 NM to fld. 1194/4W.

7.5 NM NNE. Rwy 28 PAPI OTS indef. WEATHER DATA SOURCES: HIWAS 109.0 YNG. COMMUNICATIONS: CTAF/UNICOM 123.05

CLNC DEL 119.25

RWY 10: REIL. PAPI(P2L). Thid dsplcd 348'. Trees. RWY 28: REIL. PAPI(P2L)—GA 3.75°. Thid dsplcd 260'. Trees.

YOUNGSTOWN ELSER METRO (4G4) 7 SW UTC-5(-4DT) N40°57.71′ W80°40.64′ 1070 B S4 FUEL 100LL, JET A OX 1, 2 NOTAM FILE CLE

Œ

IAP AIRPORT REMARKS: Attended 1300-dusk. Twr 1085' AGL (2118' MSL) ß €3 €3

DETROIT

DETROIT

L-30H

L-30H

IAP

YNIINGSTNWN/WARREN

NOTAM FILE YNG

YOUNGSTOWN-WARREN RGNL (YNG) 10 N UTC-5(-4DT) N41°15.64′ W80°40.75′ R S4 FUEL 100LL, JET A 0X 1. 2. 3. 4 ARFF Index—See Remarks

DETROIT H-10G, L-30H

IAP. AD

RWY 14-32: H9003X150 (ASPH-GRVD) PCN 111 F/A/W/T

RWY 14: MALSR, PAPI(P4L), 0.9% up.

RWY 32: MALSR, PAPI(P4L)—GA 3.0° TCH 40', Trees, 0.8% down RWY 05-23: H5002X150 (ASPH-GRVD) S-138, D-175, 2S-175,

MIRL 1.4% up NE

UNICOM 122.95

Class IA.

Class IA.

5 N UTC-5(-4DT) N40°00.42′ W82°00.74′

S-10 LIRL RWY 28: Thid dspicd 61'. Trees. Rgt tfc.

NOTAM FILE CLE

GND CON 121.9 CLNC DEL 118.25

Rwy 32.

Rwv 14.

RWY 05: REIL. VASI(V4L)—GA 3.25° TCH 51'. Trees.

RCO 122.2 122.1R 109.0T (CLEVELAND RADIO)

RWY 23: REIL. PAPI(P4R)-GA 3.0° TCH 24'.

RWY 143-323: H3500X60 (ASPH)

RUNWAY DECLARED DISTANCE INFORMATION RWY N5. TORA-5002 TODA-5002 ASDA-5002 LDA-5002

RWY 14-

TORA-9003 TODA-9003 ASDA-9003 LDA-9003 RWY 23: TORA-5002 TODA-5002 ASDA-5002 LDA-5002

RWY 32: TORA-9003 TODA-9003 ASDA-9003 LDA-9003

RWY 143: TORA-3500 TODA-3500 ASDA-3500 LDA-3500 RWY 323: TORA-3500 TODA-3500 ASDA-3500 LDA-3500

AIRPORT REMARKS: Attended continuously. Deer and bird haz. All military acft ctc Vader ops for bird watch condition, Rwy 143-323

used as a military assault strip. Hold short signs Twy H1 OTS until further notice, Class I, ARFF Index B, PPR for ARFF Index D call

330-609-1369. Twy G East of Twy H and Twy F North of Rwy

05-23 clsd to acft over 50,000 pounds gross weight. Twy T W of Rwy 05-23 closed indef. Terminal ramp and acft over 5.000 lbs gross weight.

WEATHER DATA SOURCES: ASOS (330) 856-9357. HIWAS 109.0 YNG. COMMUNICATIONS: ATIS 123.75

(R) APP/DEP CON 133.95 127.15 (1100-0500Z‡) R CLEVELAND CENTER APP/DEP CON 120.775 (0500-1100Z‡)

AIRSPACE: TRSA svc ctc APP CON within 20 NM.

RADIO AIDS TO NAVIGATION: NOTAM FILE YNG.

TOWER 119.5

(421)

S4

NM. ILS 110.1 ILS 110.1

ASR (1100-0500Z‡)

ZANESVILLE PARR

RWY 10-28: H3100X26 (ASPH)

AIRPORT REMARKS: Attended 1400Z‡-dark, holidays 1700Z‡-dark. For LIRL Rwy 10-28 key 122.8 five times on; eight

times slowly to deactivate. Rwy 10-28 NSTD LIRL.

COMMUNICATIONS: CTAF/UNICOM 122.8

I-YNG

I-MOK

FUEL 100LL

RADIO AIDS TO NAVIGATION: NOTAM FILE ZZV.

ZANESVILLE (L) VOR/DME 111.4 ZZV Chan 51 N39°56.45′ W81°53.56′ 312° 6.8 NM to fld. 900/6W.

Restricted Area G G G G G G G G 43 Ramp Area PPR Only C æ **(3** G G 120

LISAF Reserve

general aviation parking not visible from the NW portion of Twy H. Military ramp for military use only. Ldg fee for

(L) VORTAC 109.0 YNG Chan 27 N41°19.86' W80°40.48' 188° 4.2 NM to fld. 1160/5W. HIWAS.

VOR unusable 015°-179° blo 5000' and 180°-014° byd 25 NM blo 5000'. FETCH NDB (LOM) 338 YN N41°12.03′ W80°35.77′ 322° 5.2 NM to fld. Unmonitored. LOM unusable byd 10

LOM FETCH NDB. NDB unmonitored. LOM unusable byd 10 NM. OM unmonitored.

DETROIT

L-29B

ZANESVILLE MUNI

(ZZV) 5 E

UTC-5(-4DT)

900 B S4 FUEL 80, 100LL, JET A1 + OX 4 TPA-1900(1000) NOTAM FILE ZZV RWY 04-22: H5000X150 (ASPH-CONC) S-38, D-50, 2D-75 HIRL 0.5% up SW

N39°56.67′ W81°53.53′

RWY 04: REIL. PAPI(P4R)-GA 3.0° TCH 35'. Trees.

RWY 22: REIL. PAPI(P4L).

RWY 16-34: H4999X150 (ASPH-CONC) S-38, D-50,

2D-75 MIRL 0.6% up SE

RWY 16: REIL. Trees. RWY 34: REIL. PAPI(P4L). Trees. AIRPORT REMARKS: Attended Mon-Fri 1200-0100Z‡, Sat-Sun

1300-2300Z‡. Deer and birds on and invof arpt. Rwy 16-34 rwy cracking. Acft not visible from end to end. Twy A and Twy B Igts OTS indef. HIRL Rwy 04-22, MIRL Rwy 16-34, REIL Rwy 04, Rwy 22, Rwy 16 and Rwy 34 NSTD pilot controlled, ACTIVATE-CTAF, 5

clicks on, 7 clicks off. Rotating bcn OTS indef. Rwy 04–22 and Rwy 16-34 are concrete with asphalt overlays. Rwy 16-34 75 ft new overlay in center sides are poor.

WEATHER DATA SOURCES: ASOS 111.4 ZZV (740) 453-8139.

COMMUNICATIONS: CTAF/UNICOM 123.0

RCO 122.1R 111.4T (CLEVELAND RADIO)

RCO 122.5 122.2 (CLEVELAND RADIO)

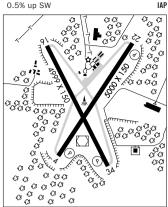
INDIANAPOLIS CENTER APP/DEP CON 124.45

RADIO AIDS TO NAVIGATION: NOTAM FILE ZZV.

(L) VOR/DME 111.4 ZZV Chan 51 N39°56.45′ W81°53.56′ at fld. 900/6W. ASOS.

HRA N39°54.38′ W81°55.16′ 035° 2.6 NM to fld. Unmonitored. NDB OTS indef. NDB (MHW) 204 SHUTDOWN.

ILS/DME 109.95 I-TNF Chan 36(Y) Rwy 22. Unmonitored.



CINCINNATI

H-10G, L-29B

2010 U.S. & CANADIAN MILITARY AERIAL AIRCRAFT/PARACHUTE DEMONSTRATIONS

During calendar year 2010, the U.S. and Canadian Military Aerial Demonstration Teams (Thunderbirds, Blue Angels, Snowbirds, and Golden Knights) will be performing on the dates and locations listed below.

Pilots should expect Temporary Flight Restrictions (TFR) in accordance with 14 CFR Section 91.145, Management of aircraft operations in the vicinity of aerial demonstrations and major sporting events. The dimensions and effective times of the TFRs may vary based upon the specific aerial demonstration event and will be issued via the U.S. NOTAM system.

				t and will be issued via	
airspace restr	0,	araged to check FDC NC	Trains to verify they have	ve the most current info	rmation regarding these
The currently s	scheduled 2	2010 aerial demonstratio	on locations, subject to c	hange without notice, are	e:
DATE:		USAF Thunderbirds	USN Blue Angels	USA Golden Knights	Canadian Snowbirds
September	25-26		MCAS Kaneohe		Chico, CA
		McConnell AFB, KS	Bay, HI		
				•	
October	1-3		MCAS Miramar, CA		MCAS Miramar, CA
	2-3	Salinas, CA		MCAS Miramar, CA	
	2-3			Jackson, MS	
	9-10	Little Rock AFB, AR	San Francisco, CA	Little Rock, AFB, AR	Daytona Beach, FL
	16-17	El Paso, TX	Dobbins AFB, GA	El Paso, TX	Atlanta, GA
	23-24		NAS Jacksonville,		
		Houston, TX	FL	Washington, DC	
	30-31		Ft Worth Alliance,	Ft Worth Alliance,	
		Cocoa Beach, FL	TX	TX	
November	6-7	Lackland AFB, TX	Homestead ARB, FL	Lackland AFB, TX	
	6-7			Homestead ARB, FL	
	11-14			Ft Bragg, NC	
	12-13		NAS Pensacola, FL		
	13-14	Nellis AFB, NV			

Note: Dates and locations are scheduled "show dates" only and do not reflect arrival or practice date TFR periods that may precede the specific aerial demonstration events listed above. Again, pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding any airspace restrictions.

CABAA VISUAL DEPARTURE CHICAGO EXECUTIVE AIRPORT

CABAA Visual- Fort Sheridan Transition RWY 16

After take-off complete a **LEFT** turn within 1 NM form the departure end of RWY 16 inside the AON Office Building. Proceed on a 040° course from the AON Office Building. Once established on course contact Departure to activate your IFR clearance.

Climb and maintain 2000' or as assigned.

CABAA Visual- Bangs Lake Transition RWY 16

After take-off complete a **RIGHT** turn within 1 NM from the departure end of RWY 16 inside the Randhurst Shopping Center. Proceed on a 320° course from the Randhurst Shopping Center to Bangs Lake Wauconda. Once established on course contact Departure to activate your IFR clearance.

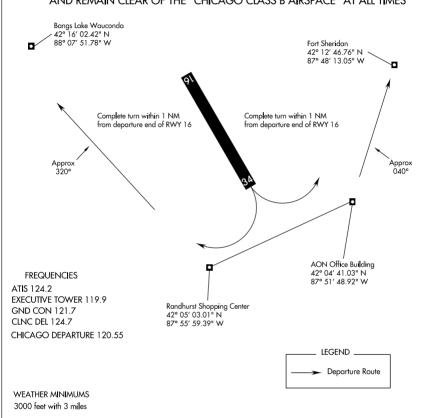
Climb and maintain 2400' or as assigned.

ALL AIRCRAFT REQUESTING THE "CABAA VISUAL DEPARTURE" MUST REMAIN CLEAR OF THE CLASS B AIRSPACE AT ALL TIMES.

TERMINAL AREA GRAPHIC NOTICE Not to be used for Navigation/Not to Scale

CABAA VISUAL DEPARTURE CHICAGO EXECUTIVE (PWK)

ALL AIRCRAFT REQUESTING THE "CABAA" VISUAL DEPARTURE" MUST MAINTAIN VFR AND REMAIN CLEAR OF THE "CHICAGO CLASS B AIRSPACE" AT ALL TIMES



CABAA VISUAL to FORT SHERIDAN Transition Rwy 16

After take-off proceed on a 040° course to Fort Sheridan. Climb and maintain 2000' or as assigned. Once established on course contact Chicago Departure to activate your IFR clearance.

CABAA VISUAL to BANGS LAKE Transition Rwy 16

After take-off proceed on a 320° course to Bangs Lake Wauconda. Climb and maintain 2400' or as assigned. Once established on course contact Chicago Departure to activate your IFR clearance.

SPECIAL NOTICES 332

MODEL ROCKET ACTIVITY IN ILLINOIS Hillsboro Municipal Airport (3K4), Hillsboro, IL

Model Rocket activity will be conducted within a 2 NM radius of the VLA273011, SFC to 8,000 Feet MSL, SR-SS. For

further information contact Flight Services at 1-800-WX-BRIEF (992-7433). Tuscola Airport (K96), Tuscola, IL

Model Rocket activity will be conducted within a 2 NM radius of Tuscola Airport (K96), SFC to 10,000 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

AEROBATIC PRACTICE AREAS IN ILLINOIS

Litchfield Municipal Airport (3LF), Litchfield, IL

Aerobatic practice will be conducted within 2 NM radius of Litchfield Municipal Airport (3LF), from 1,700 feet MSL to 4,200

feet MSL. The practice area is for waiver holders only. Pilots should use caution when opr within this area. For further

information contact Flight Services at 1-800-WX-BRIEF (992-7433).

Smith Airport (LL27), Macomb, IL

Aerobatic practice will be conducted within 2 NM radius of Smith Airport (LL27), SFC to 4,100 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

Williamson County Regional Airport (MWA), Marion, IL

Aerobatic practice will be conducted within 1 NM radius of Williamson County Regional Airport (MWA), SFC to 5.000 feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

Pinckneyville-DuQuoin Airport (PJY), Pinckneyville, IL

Aerobatic practice will be conducted within 2 NM radius of Pinckneyville-DuQuoin Airport (PJY), SFC to 3,900 feet MSL,

SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

Contact Dayton APP CON at 1-937-454-7310 or freg. 134.45.

Springfield IL, Abraham Lincoln Capital Airport (SPI)

Aerobatic practice will be conducted within 1.5 NM radius of Springfield VOR SPI160010, from 2,100 feet MSL to 4,600

feet MSL, SR-SS. For further information contact Flight Services at 1-800-WX-BRIEF (992-7433).

AEROBATIC PRACTICE AREA

Norris Field (8II2), Richmond, IN

Aerobatic Flight Activity will be conducted within 1 (one) NM radius of the Richmond (RID) VORTAC 193R/6 DME. Flights will

occur from 800' AGL to 3,500' AGL. Pilots should use caution when operating within this area. For further information,

AEROBATIC PRACTICE AREA

Skyway Estates Airport (60G), Eaton Rapids, MI

Aerobatic Flight Activity will be conducted within a 1 (one) NM radius of the Lansing (LAN) VORTAC 171R/8DME. Flights will

occur from SR to SS from 2,500 MSL to 6,000 MSL.

Pilots should use caution when operating within this area. For further information, contact Lansing ATCT at

1-517-321-1355 or freq, 119.9.

Search Light Activity Dayton, OH

Search light activity will be conducted at the Dayton Schuster Performing Arts Center, Dayton, OH (FFO VORTAC 241/7.23,

Lat 39-45-39.56N, Lon 084-11-32.94W) at and above 1500 MSL, from dusk until midnight. Searchlight beams may be injurious to pilots/passengers eyes at 1500 MSL and above. Flash blindness or cockpit illumination may occur at greater

distances, to several miles. For further information, contact Dayton AFSS at 937-454-8398.

COMMUNICATIONS ADVISORIES Indianapolis ARTCC

NABB INDIANA AREA

New Hope, London, Lexington Kentucky Area

Indianpolis Center has installed frequencies in the southern portion of their airspace that require 720-channel radio

with any other direct communication services will not be available.

event of problems or clearance requirements.

capability. Pilots should be aware that if they fly in the Nabb, IN, or the New Hope, London, and Lexington, KY, area without a 720-channel radio, ATC services will be greatly reduced. Traffic advisories, weather information, airport information, along

> INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD)

While in this area of Indianapolis Center, pilots witout 720-channel capability will, in most cases, monitor Flight Service Stations. There will be a noticeable delay in all clearance activity. Please ensure that ATC has adequate lead time in the

CHICAGO, ILLINOIS Chicago O'Hare International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the

control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise. This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections listed below Runway 10 at Taxiway ZH Runway 14L at Taxiway U2

issuance of a departure clearance. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only, departures shall not be permitted from any point on the runway other than the intersections listed

Runway 14L at Taxiway V

Runway 28 at Taxiway ZW Runway 28 at Taxiway ZV

Runway 32R at Taxiway V

Runway 32L at Taxiway T10

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible

from the tower unless the aircraft's position can be verified by the Airport Surface Detection Equipment (ASDE) prior to the

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS INDIANAPOLIS INTERNATIONAL AIRPORT (IND) INDIANAPOLIS, INDIANA

above, and only one aircraft at a time is permitted to taxi into position and hold on each respective runway.

However, aircraft cannot be taxied into "position and hold" prior to takeoff clearance.

Indianapolis International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "'position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections listed below. Runway 23L at Taxiways "C2" and "D2"

Runway 23R at Taxiways "A2" and "B2"

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not

visible from the tower. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise.

listed below.

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS GENERAL MITCHELL INTERNATIONAL AIRPORT (MKE) MILWAUKEE. WISCONSIN

Milwaukee Mitchell International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise. This waiver allows the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersection

Runway 19R at Taxiway Victor Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runway shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise.

SIMULTANEOUS OPPOSITE DIRECTION OPERATIONS CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD)

CHICAGO, ILLINOIS Chicago O'Hare International (ORD) Airport Traffic Control Tower (ATCT) has been authorized to conduct arrivals to Runways 14L & 14R while conducting simultaneous opposite direction departures off of runways 09R & 28 during IFR weather

conditions. ORD ATCT is authorized to conduct simultaneous converging instrument approaches to runways 14R & 22R while conducting simultaneous opposite direction departures off of runways O9R & 28 during weather conditions.

Chicago O'Hare International Airport Traffic Control Tower and Chicago TRACON have been authorized to conduct

SIMULTANEOUS ILS APPROACHES WITH ONE GLIDE SLOPE OUT OF SERVICE CHICAGO O'HARE INTERNATIONAL AIRPORT (ORD) CHICAGO. ILLINOIS

independent simultaneous ILS approaches with the glide slope of one parallel runway inoperative. ILS PRM (SIMULTANEOUS CLOSE PARALLEL) PROCEDURE FOR

PILOTS FILING FLIGHT PLANS TO CLEVELAND-HOPKINS INTERNATIONAL (CLE)

Effective Thursday, May 12, 2005. During the hours of 0700-2200 local, CLE ATCT may utilize ILS PRM and LDA PRM apchs to Runways 6L/6R as weather and arrival traffic demand dictate. Aircraft arriving from the west and north (primarily

over ZABER and HIMEZ INT.) should expect ILS PRM Runway 6L, aircraft arriving from the east and south (primarily over CXR and KEATN INT.) should expect LDA PRM Runway 6R. If unable to participate in PRM apchs acft operators are required to contact FAA ATCSCC directly at 1-800-333-4286 or at 703-904-4452 prior to departure to obtain a pre-coordinated arrival time. Non-participating acft may encounter DLAS attributable to PRM flow. Pilot requirements and procedures are

outlined in the U.S. Terminal Procedures Publications on the pages entitled Attention All Users of ILS Precision Runway

SPECIAL NORTH ATLANTIC, CARIBBEAN AND PACIFIC AREA COMMUNICATIONS

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

North Atlantic area: 123.45 MHz 123.45 MHz Caribbean area: Pacific area: 123.45 MHz

Monitor (PRM) or LDA Precision Runway Monitor (PRM).

Frequencies have been designated as follows:

CHICAGO, ILLINOIS CHICAGO O'HARE VOR/DME DME unlocks can occur periodically due to ground station overload when more than 100 aircraft interrogations are

received at the same time. The problem may occur when aircraft are being held in the Chicago (O'Hare) terminal area awaiting approach clearance at O'Hare. Possibilities of the problem occurring are reduced by users deactivating interrogators during nonuse or switching to an ILS DME whenever possible. Deactivating interrogators on the ground is especially important since nearby aircraft cause more overload than distant ones.

MILITARY TRAINING ROUTES The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all

military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data

CIVIL USE OF MILITARY FIELDS U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission.

rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded

Army installations, prior permission is required from the Commanding Officer of the installation. For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing

direct to Hg USAF (PRPOC), Washington, D.C. 20330.

for military users.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations, prior permission should be requested at least 30 days prior to first intended

landing

Commanding Officer of the field.

An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the U.S.Navy or Marine Corps aviation activity. For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water

areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government public use airport or seaplane base.

agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated

Landing of aircraft is prohibited on lands and waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

equi

CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply. In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been

included in this program for a selected runway.

03R

22

01L

03

08L

05L

07

19R

- 1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers) 2. Wind Measuring Capability

- 3. Approach Light System (ALS) or Short ALS (SALS)
- 4. Ceiling Measuring Capability
- 5. Touchdown Zone Lighting (TDZL) 6. Centerline Lighting (CL)

Detroit, MI (DTW)

El Paso, TX (ELP)

Fairbanks, AK (FAI)

Great Falls, MT (GTF).....

Honolulu, HI (HNL)

Houston, TX (IAH).....

Indianapolis, IN (IND)

Jacksonville, FL (JAX).....

Kansas City, MO (MCI).....

- Th

Runway Visual Range (RVR)			
8. High Intensity Runway Lighting (H	IRL)		
9. Taxiway Lighting			
10. Apron Light (Perimeter Only)			
he following have been designated	"Continuous Power	Airports," and have independent back	up capability for the
uipment installed.			
Airport/Ident	Runway No.	Airport/Ident	Runway No.
Albuquerque, NM (ABQ)	08	Milwaukee, WI (MKE)	01L
Anchorage, AK (ANC)	07R	Minneapolis, MN (MSP)	30L
Andrews AFB, MD (ADW)	01L	Nashville, TN (BNA)	02L
Atlanta, GA (ATL)	09R	New Orleans, LA (MSY)	10
Baltimore, MD (BWI)	10	New York, NY (JFK)	04R
Bismarck, ND (BIS)	31	New York, NY (LGA)	22
Boise, ID (BOI)	10R	Newark, NJ (EWR)	04R
Boston, MA (BOS)	04R	Oklahoma City, OK (OKC)	35R
Charlotte, NC (CLT)	36L	Omaha, NE (OMA))	14R
Chicago, IL (ORD)	10	Ontario, CA (ONT)	26L
Cincinnati, OH (CVG)	36C	Philadelphia, PA (PHL)	09R
Cleveland, OH (CLE)	06R	Phoenix, AZ (PHX)	08
Dallas/Fort Worth, TX (DFW)	17C	Pittsburgh, PA (PIT)	10L
Denver, CO (DEN)	35R	Reno, NV (RNO)	16R
Des Moines, IA (DSM)	31	Salt Lake City, UT (SLC)	34L

12R

09

28R

80

16C

30R

36L

36R

01

San Antonio, TX (SAT).....

San Diego, CA (SAN).....

San Francisco, CA (SFO)

San Juan, PR (SJU).....

Seattle, WA (SEA)

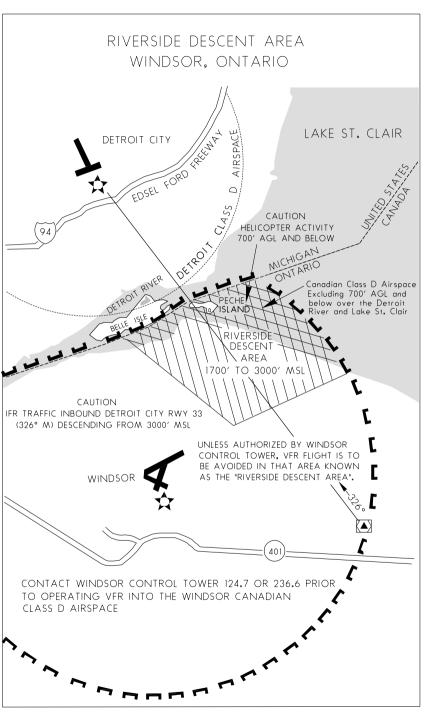
St. Louis, MO (STL)

Tampa, FL (TPA))

Tulsa, OK (TUL).....

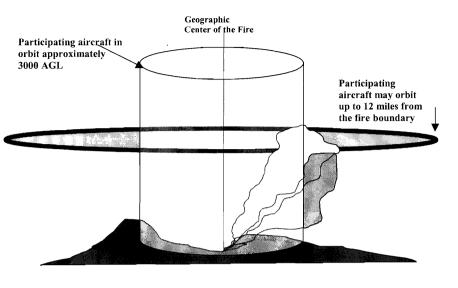
Washington, DC (DCA)

designation.



EC. 23 SEP 2010 to 18 NOV 2010

FIREFIGHTING TRAFFIC AREAS



Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.

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The following narratives summarize the FAR Part 93 Special Air Traffic Rules, and Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

LORAIN (ELYRIA), OHIO LORAIN COUNTY AIRPORT TRAFFIC RULE Part 93, Subpart J, requires each person piloting an airplane landing at the Lorain County Rgnl Airport shall enter the

traffic pattern north of the airport and shall execute a right traffic pattern for a landing to the southwest or a left traffic

pattern for a landing to the northeast. Each person taking off from the airport shall execute departure turn to the north as soon as practicable after takeoff.

KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K,

OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS

REGULATORY NOTICES

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical

and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time. Reservation procedures are detailed in Advisory Circular 93-1, Reservations for Unscheduled Operations at High Density

Traffic Airports. A copy of the advisory circular is available on the FAA website at http://www.faa.gov. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights. The toll-free telephone number for accessing e-CVRS is 1-800-875-9694 and is available for calls originating within the

United States, Canada, and the Caribbean. Users outside the toll-free areas may access e-CVRS by calling the toll number of 703-707-0568. The Internet web address for accessing the e-CVRS is http://www.fly.faa.gov/ecvrs. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport

Reservation Office at the Air Traffic Control System Command Center at (703) 904-4452. Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted

HDTA if additional operational limits or procedures are required by NOTAM and/or regulation. Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904-4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

beginning at 11 a.m. on the previous Monday. IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an

NOTE: Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an

advance reservation through e-CVRS.

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FSS TELEPHONE NUMBERS Flight Service Station (FSS) facilities provide flight planning and weather briefing services to pilots. FSS services in the

contiguous United States, Hawaii and Puerto Rico, are provided by a network of large FSS facilities and a few select remote facilities some of which operate part-time. Because of the interconnectivity between the facilities, all FSS services including radio frequencies are available continuously using published data.

Telephone Information Briefing Service (TIBS) is a FSS service that provides continuous recordings of meteorological and/or aeronautical information. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

NATIONAL FSS TELEPHONE NUMBER

OTHER FSS TELEPHONE NUMBERS (except in Alaska)

 TIBS (see description above)
 1-877-47IBS-WX (1-877-484-2799)

 Clearance Delivery Only
 1-888-766-8267

 Lifeguard Flights Only
 1-877-LIF-GRD3 (1-877-543-4733)

* District of Columbia Special Flight Rules Area & Flight Restricted Zone

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KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

TAF KPIT 091730Z 091818 15005KT 5SM HZ FEW020 WS010/31022KT FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA OVC008CB FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC METAR KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB 18/16 A2992 RMK SLP045 T01820159 Forecast Explanation Report TAF Message type: TAF-routine or TAF AMD-amended forecast, METAR-METAR hourly, SPECI-special or TESTM-non-commissioned ASOS report **KPIT** ICAO location indicator **KPIT** 091730Z Issuance time: ALL times in UTC "Z", 2-digit date, 4-digit time 091955Z 091818 Valid period: 2-digit date, 2-digit beginning, 2-digit ending times In U.S. METAR: CORrected ob; or AUTOmated ob for automated COR report with no human intervention; omitted when observer logs on 15005KT 22015G25KT Wind: 3 digit true-north direction, nearest 10 degrees (or VaRiaBle); next 2-3 digits for speed and unit, KT (KMH or MPS); as needed, Gust and maximum speed; 00000KT for calm; for METAR, if direction varies 60 degrees or more. Variability appended, e.g. 180V260 5SM Prevailing visibility: in U.S., Statute Miles & fractions; above 6 3/4SM miles in TAF Plus6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction) R28L/2600FT Runway Visual Range: R; 2-digit runway designator Left, Center, or Right as needed; "/"; Minus or Plus in U.S., 4-digit value, FeeT in U.S., (usually meters elsewhere); 4-digit value Variability 4-digit value (and tendency Down, Up or No change) HZ Significant present, forecast and recent weather: see table (on back) **TSRA** OVC010CB **FEW020** Cloud amount, height and type: SKy Clear 0/8, FEW >0/8-2/8, SCaTtered 3/8-4/8, BroKeN 5/8-7/8, OVerCast 8/8; 3-digit height in hundreds of ft; Towering CUmulus or CumulonimBus in METAR; in TAF, only CB. Vertical Visibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated METAR reports only, CLeaR for "clear below 12,000 feet" 18/16 Temperature: degrees Celsius; first 2 digits, temperature "/" last 2 digits, dew-point temperature; Minus for below zero, e.g., M06 Altimeter setting: indicator and 4 digits; in U.S., A-inches and A2992 hundredths; (Q-hectoPascals, e.g., Q1013)

KEY to AERODROME FORECAST (TAF) and **AVIATION ROUTINE WEATHER REPORT** (METAR)

Explanation Report **Forecast** WS010/31022KT In U.S. TAF, non-convective low-level (≤2,000 ft) Wind Shear; 3-digit height (hundreds of ft); "/"; 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, KT RMK In METAR, ReMarK indicator & remarks. For example: Sea-Level **SLP045** Pressure in hectoPascals & tenths, as shown: 1004.5 hPa: Temp/ T01820159 dew-point in tenths °C, as shown; temp. 18.2°C, dew-point 15.9°C FM1930 FroM and 2-digit hour and 2-digit minute beginning time; indicates significant change. Each FM starts on new line, indented 5 spaces. **TEMPO 2022** TEMPOrary: changes expected for < 1 hour and in total, < half of 2-digit hour **beginning** and 2-digit hour **ending** time period PROB40 0407 PROBability and 2-digit percent (30 or 40): probable condition during 2-digit hour beginning and 2-digit hour ending time period **BECMG 1315** BECoMinG: change expected during 2-digit hour beginning and 2-digit hour ending time period Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather. **QUALIFIER** Intensity or Proximity

+ Heavy

PR Partial

DR Drifting

SN Snow

TS Thunderstorm

SG Snow grains

VA Volcanic ash

DU Widespread dust

PO Well developed

dust/sand whirls

GS Small hail/snow pellets

FZ Freezing

- Light

- VC Vicinity: but not at aerodrome; in U.S. METAR, between 5 and 10SM of the point(s) of

- observation; in U.S. TAF, 5 to 10SM from center of runway complex (elsewhere within 8000m)
- Descriptor MI Shallow BC Patches
- BL Blowing SH Showers WEATHER PHENOMENA
- Precipitation

DZ Drizzle RA Rain

- PL Ice pellets IC Ice crystals
- GR Hail UP Unknown precipitation in automated observations Obscuration
 - BR Mist (≥5/8SM) FG Fog (<5/8SM) FU Smoke

"no sign" Moderate

- PY Spray SA Sand HZ Haze
- Other SQ Squall SS Sandstorm
- DS Duststorm FC Funnel cloud +FC tornado/waterspout

- Explanations in parentheses "()" indicate different worldwide practices.
 Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS TAFs exclude turbulence, icing & temperature forecasts; NWS METARs exclude trend fcsts Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility ≥10 km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.
- UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration—National Weather Service NOAA/PA 96052
 - EC. 23 SEP 2010 to 18 NOV 2010

FAA AND NWS

KEY AIR TRAFFIC FACILITIES

Air Traffic Control System Command Center

Main Number......703–904–4400

RGNL AIR TRAFFIC DIVISIONS		
REGION	TELEPHONE	
Alaskan	907-271-5464	
Central	816-329-2500	
Eastern	718-553-4502	
Great Lakes	847-294-7202	
New England	781-238-7500	
Northwest Mountain	425-227-2500	
Southern	404-305-5500	
Southwest	817-222-5500	
Western Pacific	310-725-6500	

AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

*24 HR RGNL

ARTCC NAME	DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m5:00 p.m.	770-210-7601
Boston	617-238-7001	7:30 a.m4:00 p.m.	603-879-6633
Chicago	847-294-8400	8:00 a.m4:00 p.m.	630-906-8221
Cleveland	847-294-8400	8:00 a.m4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	817-858-7300
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-5300
Indianapolis	847-294-8400	8:00 a.m4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m4:30 p.m.	904-549-1501
Kansas City	816-329-3000	7:30 a.m4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m3:30 p.m.	305-716-1500
Minneapolis	847-294-8400	8:00 a.m4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m4:40 p.m.	516-468-1001
Oakland	310-725-3300	6:30 a.m3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m4:30 p.m.	703-771-3401

MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON	*24 HR RGNL DUTY OFFICE	BUSINESS	BUSINESS
NAME	TELEPHONE #	HOURS	TELEPHONE #
Atlanta	404-305-5180	7:00 a.m3:30 p.m.	404-669-1200
Chicago	847-294-8400	8:00 a.m4:00 p.m.	847-608-5509
Dallas/Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m3:30 p.m.	916-366-4001
Potomac	718-995-5426	8:00 a.m4:30 p.m.	540-349-7500
Southern CA	310-725-3300	7:30 a.m4:00 p.m.	858-537-5800

^{*}Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

FAA AND NWS KEY AIR TRAFFIC FACILITIES

	DAILY NAS REPORTABLE AIRPORTS	
AIRPORT NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS

Albuquerque Intl Sunport, NM

Andrews AFB, MD

Bradlev Intl. CT

Baltimore/Washington Intl Thurgood Marshall, MD

Boston Logan Intl, MA

Burbank/Bob Hope, CA

Chicago O'Hare Intl, IL

Chicago Midway, IL

Charlotte Douglas Intl. NC

Cleveland Hopkins Intl, OH

Intercontinental/Houston, TX

Hartsfield-Jackson Atlanta Intl. GA

Louis Armstrong New Orleans Intl, LA

Norman Y. Mineta San Jose Intl, CA

Covington/Cincinnati, OH

Dallas/Ft. Worth Intl, TX

Dayton Cox Intl. OH

Denver Intl. CO

Detroit Metro, MI

Fairbanks Intl, AK Fort Lauderdale Intl, FL

George Bush

Honolulu Intl. HI

Houston Hobby, TX

Indianapolis Intl, IN

Kansas City Intl, MO

Los Angeles Intl, CA

Memphis Intl, TN

Nashville Intl, TN

Ontario Intl, CA

Orlando Intl. FL

Philadelphia Intl, PA

Pittsburgh Intl, PA

Raleigh-Durham, NC

Salt Lake City, UT

San Juan Intl PR

Tampa Intl. FL

Teterboro, NJ

San Antonio Intl, TX

San Francisco Intl, CA

Seattle-Tacoma Intl, WA

St. Louis Lambert, MO

Portland Intl, OR

Phoenix Sky Harbor Intl, AZ

Ronald Reagan Washington National, DC

San Diego Lindbergh Intl, CA

Ted Stevens Anchorage Intl, AK

Washington Dulles Intl. DC

West Palm Beach, FL

Westchester Co. NY

Miami Intl FI Minneapolis/St. Paul, MN

Las Vegas McCarran, NV

New York Kennedy Intl, NY

New York La Guardia, NY

Newark Liberty Intl, NJ

Kahului/Maui, HI

DAILY NAS REPORTABLE AIRPORTS
+O.4.UD DONU

817-222-5006

718-995-5426

718-995-5426

781-238-7001

617-238-7001

310-725-3300

404-305-5180

847-294-8400

847-294-8400

847-294-8400

708-294-7401

817-222-5006

847-294-8400

425-227-1389

847-294-8400

907-271-5936

404-305-5180

817-222-5006

404-305-5180

310-725-3300

817-222-5006

847-294-8400

310-725-3300

816-329-3000

310-725-3300

310-725-3300

404-305-5180

817-222-5006

404-305-5180

847-294-8400

404-305-5180

718-995-5426

718-995-5426

718-995-5426

310-725-3300

310-725-3300

404-305-5180

718-995-5426

310-725-3300

718-995-5426

425-227-1389

404-305-5180

718-995-5426

425-227-1389

817-222-5006

310-725-3300

310-725-3300

404-305-5180

425-227-1389

816-329-3000

404-305-5180

907-271-5936

718-995-5426

718-995-5426

404-305-5180

718-995-5426

EC. 23 SEP 2010 to 18 NOV 2010

*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

8:00 a.m.-5:00 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:00 a.m.-5:30 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:00 p.m.

8:00 a.m.-4:00 p.m.

8:00 a.m.-4:00 p.m.

8:00 a.m.-4:30 p.m.

8:30 a.m.-5:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:00 a.m.-3:30 p.m.

7:30 a.m.-4:00 p.m.

7:00 a.m.-3:30 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-5:00 p.m.

8:00 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:00 a.m.-3:30 p.m.

7:30 a.m.-4:00 p.m.

7:00 a.m.-4:30 p.m.

7:00 a.m.-4:00 p.m.

8:00 a.m.-4:00p.m.

7:00 a.m.-3:30 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-5:00 p.m.

8:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

7:00 a.m.-3:30 p.m.

7:30 a.m.-5:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

345

BUSINESS

TELEPHONE #

505-842-4366

301-735-2380

410-962-3555 617-455-3100

203-627-3428

818-567-4806

704-344-6487

773-884-3670

773-601-7600

216-898-2020

606-767-1006

972-615-2531

937-454-7300

303-342-1600

734-955-5000

907-474-0050

305-356-7932

713-230-8400

404-669-1200

808-840-6100

713-847-1400

317-484-6600

808-877-0725

816-329-2700

702-262-5978

310-342-4900

901-322-3350

504-471-4300

305-869-5400

612-713-4000

615-781-5460

718-656-0335

718-335-5461

973-565-5000

408-982-0750

909-983-7518

407-850-7000

215-492-4100

602-379-4226

412-269-9237

503-493-7500

919-840-5544

703-413-1535

801-325-9600

210-805-5507

619-299-0677

650-876-2883

809-253-8663

206-768-2900

314-890-1000

813-371-7700

907-271-2700

201-288-1889

571-323-6372

561-683-1867

914-948-6520

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

RCHICAGO CENTER 127.8 126.275 125.2

H-2-5-10-12, L-12-27-28-31, A-1 (KZAU)

Aurora - 123.75 Burlington - 135.6

Chicago Heights - 132.95 Crown Point - 127.8

Danville - 135.75

Des Plaines - 133.2 128.65 120.35 Downers Grove - 135.75 127.6

Dubugue - 127.775 133.95 125.225

Ft. Wayne - 126.325 119.85

Goshen - 133.9 135.9 127.55

Grand Rapids - 126.125 128.4

Hampshire - 134.2 133.35 Horicon - 135.55 132.75 132.225

Jones - 125.975 120.225

Kankakee - 132.5 120.125 118.225 Lafayette - 123.85

Leroy - 119.225

Lone Rock - 133.3

Maple Park - 127.075

Milford - 135.4 132.5 127.45 125.05 120.175

Milwaukee - 134.75 132.3 125.1

Moline - 135.825 118.75 Monee - 133.425

Muskegon - 132.27

Oshkosh - 132.1

Pullman - 128.5

Rockford - 120.375

Rossville 125 375 120.975

South Bend - 135.35

Volk Fld 125.05

RCLEVELAND CENTER

Algonac - 134.775 132.25 126.525 Belmont - 135.175 124.425 120.4

Carleton - 134.775 119.95

Chardon - 120.775

Detroit (North) - 120.075

Findlay - 135.1 127.675

Flint - 127.7 126.75

Holland - 135.775 121.175

Jackson - 134.65 127.3

Litchfield - 135.725 134.65 120.45

Mansfield - 134.9 133.375

Mt Hope - 120.6

Paris - 128.15 120.6

Saginaw - 133.525 127.7

Sandusky - 132.45 127.9 119.875 119.325

Waterville - 128.625

H-2-5-10-11, L-27-28-29-30-31-32, A-2 (KZOB)

	. CENTERS 347
RINDIANAPOLIS CENTER - 133.425 132.775 128.375 125.55 124.525 119.55 Brookville - 135.8 135.125 120.575 Evansville - 132.525 128.3 Henryville - 134.275 133.05 124.775 London - 134.0 128.775 126.57 124.8 120.475 Marietta - 125.55 Merwyn - 135.575 134.7 123.925 Muncie - 120.65 New Hope - 124.625 121.175 Portsmouth - 135.575 135.75 124.225 120.275 Rosewood - 128.075 Terre Haute - 134.175 132.2 Winchester - 128.22 126.375 123.775 Zanesville - 133.775 132.825 125.075 124.45	H-5-9-10-12, L-16-25-26-27-29 (KZID)
R KANSAS CITY CENTER - 135.3 Decatur - 132.1 124.3 Effingham - 135.05 133.225 124.3 Kirksville - 134.625 132.6 Marion - 125.3 Mt Vernon - 132.875 127.7 Quincy - 135.525 St Charles - 125.9 121.25 St Louis - 128.1 127.225 125.5 Vandalia - 125.725	H-5-6, L-10-15-16-27, A-2 (KZKC)
RMINNEAPOLIS CENTER Alpena - 125.475 Central Wisconsin - 124.4 Duluth - 134.675 134.55 134.55 127.9 Eau Claire - 133.75 125.3 Escanaba - 127.65 Farmington - 133.7 Flying Cloud - 133.7 121.05 Green Bay - 125.55 Hayward - 126.45 Houghton - 127.2 Iron Mountain - 133.45 121.25 Ironwood - 133.55 La Crosse - 128.6 118.85 Mosinee - 124.4 Oscoda - 125.475 Pellston - 134.6 132.425 Princeton - 121.05 Rhinelander - 123.725 133.65 Rochester - 132.35 Saginaw - 118.05 Sawyer - 119.1 Swinns Valley - 135.7 134.85 Traverse City - 132.9 White Cloud - 132.55 120.85	H-2-5-10-11, L-10-12-13-14-27-28-31 (KZMP)

348 FLIGHT SERVICE STATION COMMUNICATION FREQUENCIES VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAIDS are listed after the NAVAID name. RCO's not at NAVAID's are listed by name. CLEVELAND AFSS

AKRON VOR/DME 114.4T 122.1R BELLAIRE VOR/DME 117.1T 122.1R BRIGGS VOR/DME 112.4T 122.1R

CHARDON VOR/DME 112.7T 122.1R
CLEVELAND RCO 122.1R 122.2 122.35
DRYER VOR/DME 113.6T 122.1R
FINDLAY VORTAC 108.2T 122.1R 122.2 122.65
JEFFERSON VOR/DME 115.2T 122.1R
MANSFIELD VORTAC 108.8T 122.1R 122.6
NEWCOMERSTOWN VOR/DME 111.8T 122.1R
SANDUSKY VOR/DME 109.2T 122.1R
WATERVILLE VOR/DME 113.1T 122.1R

WATERVILLE VOR/DME 113.17 122.1R
YOUNGSTOWN VORTAC 109.0T 122.1R 122.2
ZANESVILLE VOR/DME 111.4T 122.1R 122.2 122.5

DAYTON AFSS

ALLEN COUNTY VOR 108.4T 122.1R

ATHENS-ALBANY RCO 122.25
APPLETON VORTAC 116.7T 122.1R
CINCINNATI RCO 122.4
COLUMBUS RCO 122.2 122.3
DAYTON RCO 114.5T 122.1R 122.2 122.55
DAYTON VOR/DME 114.5T 122.1R
GALLIPOLIS RCO 121.65

HILLSBORO RCO 122.2 ROSEWOOD VORTAC 117.5T 122.1R YELLOW BUD VOR 112.5T 122.1R MANITOWOC VOR/DME 111.0T 122.1R MENOMINEE VOR/DME 109.6T 122.1R MILWAUKEE RCO 122.4 122.65

MOSINEE RCO 122.525 NEWBERRY RCO 122.4 OSHKOSH VORTAC 111.8T 122.1R 122.25 PHILLIPS RCO 122.05 PLATTEVILLE RCO 122.5 PRAIRIE DIJ CHIEN RCO 122 25 RHINELANDER VORTAC 109.2T 122.1R RICE LAKE RCO 122.3 SAULT STE MARIE VOR/DME 112.2T 122.1R SAWYER RCO 123.6 SCHOOLCRAFT COUNTY RCO 122.25 SIREN VOR/DME 109.4T 122.1R STEVENS POINT VORTAC 110.6T 122.1R TIMMERMAN VOR/DME 112.5T 123.6R WAUSAU RCO 122.4 WEST BEND VOR 109.8T 122.1R WISCONSIN RAPIDS RCO 122.45 WOODRUFF RCO 122.6

EC. 23 SEP 2010 to 18 NOV 2010

KANKAKEE AFSS

BLOOMINGTON VOR/DME 108.2T 123.6R BRADFORD VORTAC 114.7T 122.05R 123.6 CHICAGO HEIGHTS VORTAC 114.2T 122.1R

CHICAGO MEIGS RCO 122.15

DUPAGE VOR/DME 108.4T 122.1R 122.3 GALESBURG VOR/DME 109.8T 122.1R

JOLIET VORTAC 112.3T 122.1R 122.5 KANKAKEE VOR/DME 111.6T 122.1R 122.2

MACOMB RCO 122.15

NEW LENOX RCO 122.5 PEORIA RCO 122.35

WAUKEGAN RCO 122.55

MOLINE RCO 122.6

PEOTONE VORTAC 113.2T 122.05R POLO VOR/DME 111.2T 122.1R PONTIAC VOR/DME 109.6T 122.1R ROCKFORD VOR/DME 110.8T 122.1R 122.65

LANSING AFSS

ALPENA VORTAC 108.8T 122.1R BAD AXE RCO 122.65 BATTLE CREEK RCO 122.2 BARRIEN SPRINGS RCO 121.625 CARLETON VORTAC 115.7T 122.1R

DETROIT RCO 122.2 122.55

FLINT RCO 122.3

GAYLORD RCO 122.55

GRAND RAPIDS VOR/DME 115.95T 122.1R

JACKSON RCO 122.2

KALAMAZOO VOR/DME 109.0T 122.1R KEELER VOR/DME 116.6T 122.1R

LANSING RCO 122.2

LITCHFIELD VOR/DME 111.2T 122.1R

LUDINGTON RCO 122.45

MANISTEE VOR/DME 111.4T 122.1R

MOUNT PLEASANT RCO 122.6

MUSKEGON RCO 122 5

PECK VORTAC 114.0T 122.1R PELLSTON RCO 122.2 122.3 123.6

PONTIAC VORTAC 111.0T 122.15R

PULLMAN VOR/DME 112.1T 122.1R

SAGINAW RCO 122.2 122.4

SALEM VORTAC 114.3T 122.1R

TRAVERSE CITY RCO 122.2 122.65

WEST BRANCH RCO 122.35 WHITE CLOUD VORTAC 117.6T 122.1R

SAINT LOUIS AFSS 122.2 122.45

BIBLE GROVE VORTAC 109.0T 122.05R

CENTRALIA VORTAC 115.0T 122.1R

CHAMPAIGN VORTAC 110.0T 122.1R 122.45

DANVILLE VORTAC 111.0T 122.1R

DECATUR VORTAC 117.2T 122.1R 122.3 MARION VOR/DME 110.4T 122.1R

MATTOON VOR/DME 109.4T 123.6R

MOUNT VERNON VOR/DME 113.8T 122.05R

OUINCY VORTAC 113.6T 122.1R 122.5

ROBERTS VOR/DME 116.8T 122.1R

SAINT LOUIS REGIONAL RCO 122.05 SAMSVILLE VOR/DME 116.6T 122.1R

SPINNER VORTAC 112.7T 122.25

VANDALIA VORTAC 114.3T 122.1R

TERRE HAUTE AFSS

CROWNPOINT RCO 123.65

EVANSVILLE RCO 122.65

FORT WAYNE RCO 122.2 122.45

GOSHEN VORTAC 113.7T 122.1R

HOOSIER VORTAC 110.2T 122.1R

INDIANAPOLIS RCO 122.55 KNOX VOR/DME 115.6T 122.1R

KOKOMO VORTAC 113.5T 122.1R

LAFAYETTE RCO 122.2 122.35

MUNCIE VOR/DME 114.4T 122.1R NABB VORTAC 112.4T 122.1R

OSGOOD RCO 122.25

RICHMOND VORTAC 110.6T 122.1R

SHELBYVILLE VORTAC 112.0T 122.1R

SOUTH BEND RCO 122.6

TERRE HAUTE RCO 122.65

WASHINGTON RCO 122.2

FSDO 35

FLIGHT STANDARDS DISTRICT OFFICES (FSDO)

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manage Flight Standards District Office–Federal Aviation Administration.

ILLINOIS

DuPage Airport 31W775 North Avenue West Chicago, Illinois 60185–1056 Telephone: 630–443–3100

Capital Airport 1250 North Airport Drive, Suite 1 Springfield, Illinois 62707-8417 Telephone: 217-744-1910

9950 West Lawrence Ave., Suite 400 Schiller Park, Illinois 60176 Telephone: 847–928–8000

INDIANA

1201 Columbia Road, Suite 101 Plainfield, Indiana 46168 Telephone: (317) 837–4400

5800 Nimtz Parkway South Bend, Indiana 46628 Telephone: (574) 245–4600

MICHIGAN

3196 Kraft Ave. SE, Suite 103 Grand Rapids, Michigan 49512 Telephone: 616–954–6657 Willow Run Airport 8800 Beck Road Belleville, Michigan 48111 Telephone: 734–487–7222

OHIO

Great Northern Technology Park II 25249 Country Club Blvd. North Olmsted, Ohio 44070 Telephone: 440–686–2001

Lunken Airport Executive Building Ground Floor 4242 Airport Road Cincinnati, Ohio 45226 Telephone: 513–979–6400

Port Columbus International Airport 2780 Airport Drive, Suite 300 Columbus, Ohio 43219 Telephone: 614–255–3120

WISCONSIN

General Mitchell Intl Airport 4915 S. Howell Ave. Milwaukee, Wisconsin 53207 Telephone: 414–486–2920

PRFFFRRFD IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

- 1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
- 2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
- 3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
- 4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
 - 5. Where more than one route is listed the routes have equal priority for use.
 - 6. Official location identifiers are used in the route description for VOR/VORTAC navaids.
 - 7. Intersection names are spelled out.
- 8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW031); or an intersection (e.g., GSW081 FITCH).
- Where two navaids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
- 10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
 - 11. (90-170 incl) altitude flight level assignment in hundred of feet.
- 12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
 - 13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.

Sun	1300-2	2259 l	ocal ti	me.
Mon thru Fri	0701-2	2259 I	ocal ti	me.
Sat	0701-2	L459 I	ocal ti	me.

- 14. Use current SIDs and STARSs for flight planning.
- 15. For high altitude routes, the portion of the routes contained in brackets [] is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

LOW ALTITUDE

Terminals	Route	Effective Times (UTC)
CHICAGO METRO AREA		
From Midway (MDW) or O'Hare (ORD)		
Atlanta (ATL)	EON V171 TTH V243 GOO V333 DALAS ATL	
Denver (DEN)	SIMMN V172 OBH V219 HCT V8 DVV	
Indianapolis (IND)	EON V399 KENLA V128 JELLS	
Louisville (LOU)	EON V171 TTH V243 IIU279 CHERI	1100-0300
Memphis (MEM)	RBS V429 MWA V67 CNG V11 MIOLA	1600-2300
Miami (MIA)	EON V171 TTH V243 LGC V321 PZD V159 CTY V7	
	LAL V157 LBV V529 V35 CURVE	1100-0300
Pittsburgh (PIT)	GIJ V6 DJB V30 ACO V337 CUTTA	1100-0300
San Francisco (SF0)	SIMMN V172 PLL V158 DBQ V100 MBW V6 FMG	
	V6	
Tampa (TPA)	EON V171 TTH V243 LGC V321 PZD V159 CTY	
	V35 ENDED	
	or	
	(GPS or DME/DME-IRU Equipped) EON V171 TTH	
	V243 LGC V321 PZD V159 CTY V35 ENDED	
Tulsa (TUL)	MZV BRL V63 SGF V14	0000-2359
Washington Natl (DCA)	EON V144 ESL V4 MANNE	1100-0300

Route NU	Effective Times (UTC) 1100-0300 1100-0300 0000-2359 1100-0300 0000-2359 0000-2359
UXX-STAR UXX-STAR AN SPRTN-STAR KK BQS-STAR VR KEM-STAR U AR-STAR X V218 LAN SPRTN-STAR KK BQS-STAR V67 CNG V11 MIOLA VR	1100-0300 0000-2359 1100-0300 0000-2359
ZAR-STAR	1100-0300 0000-2359 1100-0300 0000-2359
UXX-STAR	0000-2359 1100-0300 0000-2359
AN SPRTN-STAR	0000-2359 1100-0300 0000-2359
X V218 LAN SPRTN-STAR X V218 CAN SPRTN-STAR	0000-2359 1100-0300 0000-2359
X V218 LAN SPRTN-STAR X V218 CAN SPRTN-STAR	0000-2359 1100-0300 0000-2359
VRVR	0000-2359 1100-0300 0000-2359
X V218 LAN SPRTN-STAR X V218 LAN SPRTN-STAR X V67 CNG V11 MIOLA	1100-0300 0000-2359
IU	0000-2359
IU	0000-2359
AR-STAR	0000-2359
X V218 LAN SPRTN-STAR IK BQS-STAR V67 CNG V11 MIOLA	
K BQS-STARV67 CNG V11 MIOLAV7	
V67 CNG V11 MIOLAVR	
/R	
/R	0000-2359
	0000-2359
.6	
	1100-0300
AR	1100-0300
GOL (RNAV)-DP DQN	1100-0300
A.D.	4400 0000
	1100-0300
-	4400 0200
	1100-0300
CRUXX-STAR	
YNTN	
V275 KLINE VWV VWV064	
1111/1/ 1/07 1/1/1/ 1/007 11PO 1/400	
	4400 0000
P LOVEY VHP BVT V97 CGT	1100-0300 1100-0300
(EV (BNIAV) DB LOVEV VIII BVT	
	1100-0300
	1100-0300
	1100-0300
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1100 0000
TEWATER-DP VHP BVT V97 CGT	
	1100-0300
	1100-0300
EGRASS-DP HYK V97	
IIU	1100-0300
NAV only) GIPLE (RNAV)-DP YRK	
7 WISKE WISKE-STAR	1100-0300
A A A A A A A A A A A A A A A A A A A	PETTY MKG POLAR-STAR

54 P	REFERRED IFR ROUTES	
Terminals	Route	Effective Times (UTC)
	(all others, 60–170 incl) RHOMM-DP YRK V44 JPU V117 WISKE WISKE-STAR	1100-0300
CLEVELAND METRO AREA (CLE, CGF, BKL, LNN, LPR)		
Baltimore (BWI)	(90-170 incl) ACO AIR V75 MGW V44 MRB V3	
B ((B00)	EMI	1100-0300
Boston (BOS)	(60–170 incl) V522 ERI V270 CFB V72 ALB V2 GDM GDM–STAR	1100-0300
Buffalo (BUF)	(60–170 incl) V522 ERI V43 WELLA	4400 0000
Chicago Midway (MDW)	(60–170 incl) SKY VWV V126 CGT (60–170 incl) V45 VWV V126 HALIE V340	1100-0300
Columbus (CMH)	BEARZ(60–170 incl) DJB DJB173 HERAK APE035 APE	1100-0300
Dayton (DAY)	(60–170 incl) OBRLN-DP ROD	
Detroit/Wayne (DTW)	(60–170 incl) DJB DJB314 GEMNI GEMNI– STAR	
Detroit Satellites:		
Ann Arbor (ARB) Pontiac (PTK)		
Willow Run (YIP)		
Windsor (YQG)		
Young (DET)	(60–170 incl) DJB LLEEO–STAR	1100-0300
Indianapolis (IND)	(60–170 incl) OBRLN-DP MIE MIE244 CLANG CLANG-STAR	
Pittsburgh (PIT)	(60-170 incl) ACO V337 CUTTA	1100-0300
Rochester (ROC)	(60–170 incl) V522 ERI V14 BUF V2 CLUNG	1100-0300
Washington Dulles (IAD)	(90–170 incl) ACO AIR V75 MGW V144 ESL V4 AML	1100-0300
	(90-170 incl) ACO AIR V75 MGW V44 MRB AML	1100-0300
Washington Natl (DCA)	(90-170 incl) ACO AIR V75 MGW V144 ESL V4	4400 0000
COLUMBUS (CMH)	AML	1100-0300
Cleveland (CLE)	(60-170 incl) V43 TVT KEATN-STAR	1100-0300
Pittsburgh (PIT)	(60-170 incl) APE V12 CTW WISKE-STAR	1100-0300
Toledo (TOL) DAYTON (DAY)	V493 VWV	1100-0300
Chicago Midway (MDW)	V55 V422 CGT	1100-0300
Chicago O'Hare (ORD)	V55 FWA V340 BEARZ DON ZABER-STAR	1100-0300 1100-0300
Detroit Metro-Wayne Co (DTW)	DQN MIZAR-STAR	1100-0300
Detroit Satellites: Ann Arbor (ARB)		
Pontiac (PTK)	DON CRITX-STAR	
Willow Run (YIP)	DQN CRUXX-STAR	
Young (DET)	V275 KLINE VWV VWV064 LYNTN	
Washington Dulles (IAD)	(90-170 incl) ZZV V144 ESL V4 AML or	1100-0300
Weeklanten Nett (DC 1)	(90–170 incl) ZZV V14 MGW V44 MRB AML	1100-0300
Washington Natl (DCA) DETROIT METRO AREA (Detroit Metro-Wayne Co & Satellites)	(90–170 incl) ZZV V144 ESL V4 AML	1100-0300
Albany (ALB)	(60-170 incl) TYCOB V116 BFD V72	1100-0300
Atlantic City (ACY)	(60-170 incl) ERRTH-DP CXR YNG V6 SEG V170	
Boston (BOS)	MXE V184	1100-0300
Puffolo (PUE)	GDM	1100-0300
Buffalo (BUF) Chicago Midway (MDW)	(60–170 incl) TYCOB V90 DKK HARWL JXN V116 LEROY GSH CGT	1100-0300 1100-0300
Chicago O'Hare (ORD)	FWA-DP FWA KNOX-STAR	

EC. 23 SEP 2010 to 18 NOV 2010

or

or

FWA-DP FWA WATSON (RNAV)-STAR.....

HARWL JXN V116 ELX V100 DEERE.....

Effective

		T:
T	5	Times
Terminals	Route	(UTC)
Claveland (CLE)	GRR MKG V510 FAH BJB OBK MAARS ACO319 HIMEZ HIMEZ-STAR	
Cleveland (CLE)		1100 0200
Columbus (CMH)	CAVVS VWV FDY V279 GUNNE	1100-0300
Fort Wayne (FWA)	(60–170 incl, Props) HARWL JXN V221 or	1100-0300
	(60-170 incl, Jets) ANNTS DX0217 FWA071	1100-0300
Indianapolis (IND)	HARWL JXN V221 MIE V14 CLANG-STAR	1100-0300
Milwaukee (MKE)	(60–170 incl) DUNKS V170 PMM V170 PETTY	1100-0300
Montreal (CYUL)	(60-170 incl) TYCOB V116 ERI V270 ELZ V501	
	SYR MSS V203 FRANX FRANX-STAR	1100-0300
Pittsburgh (PIT) Rochester (ROC)	(60–170 incl) ACO CUTTA-STAR(60–170 incl) TYCOB YQG 098 SURLY DKK V14	1100-0300
Notice (NOO)	BUF	1100-0300
Syracuse (SYR)	(60–170 incl) TYCOB V116 ERI V14 GEE V84	1100-0300
Washington Natl (DCA)	(60-170 incl) ACO AIR V75 MGW V144 ESL V4	
	MANNE	1100-0300
Westchester Co (HPN)	(60-170 incl) TYCOB V116 ERI V270 V433 V157	
	HAARPor	1100-0300
	(60–170 incl, props less than 250 kts) TYCOB	
	V116 ERI V270 V433 V123 HAARP	1100-0300
FORT WAYNE (FWA)	5 2.0 72.0 7.00 7120 10000	1100 0000
Moline (MLI)	V144 BDF V156 MZV	0000-2359
Rockford (RFD)	V144 SMARS V128	0000-2359
GREATER PEORIA RGNL (PIA)		
Chicago Midway (MDW)	PIA PIAOSE MOTIF JOT	
Chicago O'Hare (ORD)INDIANAPOLIS (IND)	PIA PIAO35 V10 PLANO	
Cleveland Metro Area (CLE) (CGF) (BKL)		
(LNN) (LPR)	(RNAV only/60-170 incl) DQN ZABER -STAR	
(=)	or	
Data it Mater Warran Co. (DTM)	(all others/60–170 incl) DQN MFD ZABER –STAR.	
Detroit Metro-Wayne Co (DTW)	FWA MIZAR-STAR	
Detroit Satellites:	FWA CRUXX-STAR	
Ann Arbor (ARB)		
Pontiac (PTK)		
Willow Run (YIP)	FWA CRUXX-STAR	
Windsor (YQG)		
Young (DET)	V275 KLINE VWV VWV051 P00FE	
Evansville (EVV)	V305	
Kansas City (MKC)	V50 SPI BQS-STAR	0000-2359
Pittsburgh (PIT)	(60-170 incl) V50 DQN V12 CTW WISKE-STAR	1100-0300
Springfield (SGF)	V11 PXV V190	0000-2359
	or	
	TTH BIB V72 FAM V190	0000-2359
Tulsa (TUL)	V11 PXV V190 SGF V14	0000-2359
Wichita (ICT)	TTH BIB V72 ENL V234 EMP V12	0000-2359
MILWAUKEE (MKE)		
Detroit Metro-Wayne Co (DTW)	(60-170 incl) SQUIB MKG POLAR-STAR	
Detroit Satellites:		
Ann Arbor (ARB)		
Pontiac (PTK)		
Willow Run (YIP)		
Windsor (YQG)	CDD LAN CDDTN CTAD	
Young (DET)	GRR LAN SPRTN-STAR	
MOLINE (MLI)		
Fort Wayne (FWA)	V156 BDF V144	0000-2359
South Bend (SBN)	V156 BDF V144 MAPPS V156	0000-2359
ROCKFORD (RFD)		
Fort Wayne (FWA)	V128 SMARS V144	0000-2359
South Bend (SBN)	V128 SMARS V144 MAPPS V156	0000-2359
SOUTH BEND (SBN)		
	V156 MAPPS V144 BDF V156 MZV V156 MAPPS V144 SMARS V128	0000-2359 0000-2359

Terminals	Route	Effective Times (UTC)
SPRINGFIELD (SPI)	DNIT MOTIE STAD	0000 0050
Chicago Midway (MDW) Chicago O'Hare (ORD)	PNT MOTIF-STAR PNT V227 PLANO	0000-2359 0000-2359
Springfield (SGF)	V50 UIN V63 SGF V14	0000-2359
Tulsa (TUL)	V50 UIN V63 SGF V14	0000-2359
TERRE HAUTE (HUF)		
Kansas City (MKC)	V50 SPI BQS-STAR	0000-2359
Springfield (SGF)	V7 PXV V190	0000-2359
Tulsa (TUL)	V7 PXV V190 SGF V14	0000-2359
SPECIAL LOW	ALTITUDE DIRECTIONAL ROUTES	Effective Times
	Route	(UTC)
Low Altitude IFR single–direction route for trait Westbound	ffic overflying ZOB ARTCC landing at ORD: JXN V116 ELX V100 DEERE	
Low Altitude IFR single-direction route for trait Westbound	ffic overflying ZOB ARTCC landing at ORD: OXI KNOX–STAR	
	HIGH ALTITUDE	
Terminals	Route	Effective Times (UTC)
AKRON (CAK)		
Detroit/Wayne (DTW)	DJB DJB314 GEMNI GEMNI-STAR	
CHICAGO METRO AREA (ORD, MDW)		
Atlanta (ATL)	(RNAV only) GUIDO J73 PXV BNA ERLIN (RNAV)-STAR	
Baltimore (BWI) Birmingham (BHM) Boca Raton (BCT)	(all others) GUIDO J73 PXV BNA ROME-STAR GIJ J146 J34 DJB J162 MGW EMI-STAR EON DNB BNA VUZ(GPS or DME/DME-IRU equipped) EON DNV TTH	
Boston (BOS)	SWAPP ATL J89 OTK PRRIE (RNAV)-STAR ELX CRL J554 JHW J82 ALB GDM GDM-STAR	
Bristol/Johnson/Kingsport (TRI)	EON DNV VHP J24 FLM HMV	
Charleston (CHS)	EON DNV VHP J24 FLM	
Charleston (CRW)	EON DNV VHP J24 FLM HVQ	
Charlotte (CLT)	EON DNV VHP J24 FLM JOHNS (RNAV)-STAR	
Chattanooga (CHA)	(DNAV only) FON DNV CECRM (DNAV) STAP	
Cincinnati (CVG)	(RNAV only) EON DNV CEGRM (RNAV)-STAR or (all others) EON DNV SHELBYVILLE-STAR	
Columbia (CAE)	EON DNV VHP J24 FLM	
Columbus (CMH)	GIJ GIJ092036 FWA J178 APE	
Dallas/Fort Worth (DFW)	RBS STL RZC FSM BYP	
Dayton (DAY)	GIJ GIJ092036 FWA ROD DQN IOW DSM J10 LBF SAYGE-STAR or	
	PLL PLL275065 FOD J94 ONL J114 SNY LANDR-STAR	
Detroit/Wayne (DTW)	PETTY MKG POLAR-STAR	
Evansville (EVV) Fort Lauderdale (FLL)	GUIDO GUIDO J73 SZW J43 PIE FORTL-STAR or	
	EON DNV TTH SWAPP ATL J89 HITTR PIE FORTL-STAR or	
	(GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL J89 OTK JINGL (RNAV)-STAR	
Greensboro (GSO)	EON DNV VHP J24 FLM	
Greer (GSP)	EON DNV VHP J24 FLM SOT SUG V185 UNMAN GIJ J146 J34 DJB J518 J152 HAR	

Effective

Route EON DNV	Times (UTC)
EON DNV TTH SWAPP ATL AMG ALMA-STAR ELX CRL J554 JHW J70 LVZ LENDY-STAR EON DNV VHP J24 FLM J43 VXV GIJ J146 MIP MIP-STAR RBS FAM ARG GQE-STAR or GUIDD J73 PXV WLDER-STAR GUIDD J73 SZW J43 PIE CYY-STAR or (Turbojets-GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL SZW SSCOT (RNAV)-STAR	
ELX CRL J554 JHW J70 LVZ LENDY-STAR	
EON DNV VHP J24 FLM J43 VXV	
GIJ J146 MIP MIP-STAR RBS FAM ARG GQE-STAR OR GUIDO J73 PXV WLDER-STAR GUIDO J73 SZW J43 PIE CYY-STAR OR (Turbojets-GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL SZW SSCOT (RNAV)-STAR	
RBS FAM ARG GQE-STAR or GUIDO J73 PXV WLDER-STAR GUIDO J73 SZW J43 PIE CYY-STAR or (Turbojets-GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL SZW SSCOT (RNAV)-STAR	
or GUIDO J73 PXV WLDER-STAR GUIDO J73 SZW J43 PIE CYY-STAR or (Turbojets-GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL SZW SSCOT (RNAV)-STAR	
GUIDO J73 SZW J43 PIE CYY-STAR or (Turbojets-GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL SZW SSCOT (RNAV)-STAR	
(Turbojets-GPS or DME/DME-IRU equipped) EON DNV TTH SWAPP ATL SZW SSCOT (RNAV)-STAR	
EON DNV VHP J24 FLM	
EON DNIV TTU LIEUAW CTAD	
EON DNV TTH HEHAW-STARELX CRL J584 SLT FQM-STAR	
EON DNV VHP J24 MOL TERKS-STAR	
PLL PLL275065 FOD J94 ONL J148 OAL MOD or	
PLL PLL275065 FOD J94 LCU J158 MVA EON DNV TTH BWG GQO ATL J89 OTK	1500-0400
GIJ J146 CXR EWC JST BUNTS-STAR	
MZV STJ J18 FTI J19 ZUN BUNTR-STAR	1200-0400
IOW J192 PWE J64 PUB ALS J102	
	1500-0400
PLL PLL275065 FOD J94 FMG HYP-STAR or	
DBQ J94 LCU HYP-STAR	1500-0400
GUIDO J73 PXV J73 SZW CLAMP-STARGUIDO J73 PXV J73 SZW DARBS-STAR	
or (GPS or DME/DME-IRU equipped) GUIDO J73 PXV J73 SZW FOXX (RNAV)-STAR	
GIJ J146 PLAIN VWV	
or GIJ J146 J34 SHAAR ELDEE (RNAV)-STAR	
(all others) EON DNV TTH SWAPP ATL OTK WLACE (RNAV)-STAR	
or (GPS or DME/DME-IRU equipped) DENNT DARCY	
DREGS DUMGE SWAPP ATL J89 OTK WLACE (RNAV)-STAR	
or (GPS or DME/DME-IRU equipped) EON DNV TTH IIU J99 VXV J43 WLACE (RNAV)-STAR	
or (all others) ORD EON DNV TTH SWAPP ATL OTK	
WLACE (RNAV)-STARELX CRL J554 JHW J82 WILET RKA292 RKA	
SWEDE-STAR	
LEWKE GIJ J146 FJC	
	Or PLL PLL275065 FOD J94 LCU J158 MVA

Route

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Terminals

Route	(UTC)
CMSKY CARYN CYBIL PXV J73 BNA ROME-STAR	
CMSKY CARYN CYBIL PXV BNA ERLIN	
(RNAV)-STAR	
CMSKY CARYN CYBIL PXV	
or	
(GPS or DME/DME-IRU equipped) EON DNV TTH	
DREGS DUMGE SWAPP ATL J89 OTK PRRIE	
(RNAV)-STAR	
EARND ELANR EMMLY ETAME EMEGE FLM	
EARND ELANR EMMLY ETAME FLM JOHNS	
(RNAV)-STAR	
or	
DENNT DARCY DNV SHB-STAR	
LEWKE GIJ CRL HIMEZ-STAR	
EARND ELANR EMMLY ETAME EMEGE FLM	
GIJ LFD MIZAR-STAR	
GIJ LFD CRUXX-STAR	
	1200-0400
OTK JINGL (RNAV)-STAR	
or	
or	
EON DNV TTH IIU J99 VXV J46 AMG TAY JINGL	
(GPS or DME/DME-IRU equipped) EON DNV TTH	
SWAPP ATL J89 OTK JINGL (RNAV)-STAR	
CMSKY CARYN CYBIL PXV J73 SZW TYNEE	
J73 SZW TYNEE (RNAV)-STAR	
EARND ELANR EMMLY ETAME FLM PSK	
BEKKI FAM J137 LIT J180 SWB ROKIT	
(RNAV)-STAR	
or (Non-advanced NAV only) BACEN BLOKR BEKKI	
	CMSKY CARYN CYBIL PXV BNA ROME—STAR or CMSKY CARYN CYBIL PXV BNA ERLIN (RNAV)—STAR

Effective Times

Terminals Houston (IAH)	Route (Turbojets-GPS or DME/DME-IRU equipped) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB TXMEX (RNAV)-STAR	(UTC)
Huntsville (HSV)	(Non-advanced NAV only) BACEN BLOKR BEKKI FAM J137 LIT J180 SWB DAS—STAR DENNT DARCY DREGS DONVE BWG LEWKE GIJ EVOTE NELLS KEEHO JHW J70 STW	
Jacksonville (JAX)	DENNT DARCY DREGS DUMGE SWAPP AMG	
La Guardia (LGA) Memphis (MEM)	ALMA-STAR LEWKE GIJ J146 ETG MILTON-STAR BACEN BLOKR BEKKI FAM ARG GILMORE-STAR or	
Miami (MIA)	CMSKY CARYN CYBIL PXV WLDER-STAR DENNT DARCY DREGS DUMGE SWAPP ATL SZW J43 PIE CYPRESS-STAR	
	or (Turbojets-GPS or DME/DME-IRU equipped) DENNT DARCY DREGS DUMGE SWAPP ATL SZW J86 OTK SSCOT (RNAV)-STAR	
	(Turbojets-GPS or DME/DME-IRU equipped) GUIDO J73 SZW SSCOT (RNAV)-STAR	
	(Turbojets-GPS or DME/DME-IRU equipped) EON DNV TTH IIU J99 VXV J46 AMG TAY SSCOT (RNAV)-STAR	
	EON DNV TTH SWAPP ATL SZW J43 PIE CYPRESS-STAR	
Minneapolis (MSP)	BAE EAU-STAR LEWKE GIJ EVOTE NELLS KEEHO JHW J82 ALB	1200-0400
Nashville (BNA)	EENCMSKY CARYN CYBIL PXV CCT HEHAW-STAR LEWKE GIJ EVOTE NELLS KEEHO J584 SLT FQM WILLIAMSPORT-STAR	
New Orleans (MSY)	BACEN BLOKR BEKKI ENL J71 MEM J35 MCB RYTHM-STAR	
Norfolk (ORF)	EARND ELANR EMMLY ETAME EMEGE FLM J24 MOL TERKS-STAR	
Orlando (MCO/ORL)	DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK PIGLT (RNAV)-STAR	
Dhaariy (DIIV	DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK LEESE-STAR	1100-0400
Phoenix (PHX	MZV J18 FTI J19 ZUN EAGUL (RNAV)-STAR or MZV LMN J64 HLC LAA J102 GUP EAGUL	1200-0400
Philadelphia (PHL) Pittsburgh (PIT)	(RNAV)-STAR LEWKE GIJ J146 CXR EWC JST BUNTS-STAR LEWKE GIJ OTENS ANEWA RIEKE DJB ACO	
Providence (PVD)	CUTTA-STARLEWKE GIJ EVOTE NELLS KEEHO JHW J82	
Raleigh/Durham (RDU)	MEMMS J522 HNK TEDDY EARND ELANR EMMLY ETAME EMEGE FLM BKW ROA SOUTH BOSTON-STAR	
Richmond (RIC)	EARND ELANR ETAME EMEGE FLM J24 FAK LEWKE GIJ EVOTE NELLS KEEHO DKK BUF CMSKY CARYN CYBIL PXV J73 SZW	
Sarasota/Bradenton (SRQ)	DARBS-STAR CMSKY CARYN CYBIL PXV J73 SZW CLAMP-STAR CMSKY CARYN CYBIL PXV J73 SZW FOOXX (RNAV)-STAR	

Route

CMSKY CARYN CYBIL PXV J73 SZW

Terminals

	CMSKY CARYN CYBIL PXV J73 SZW
T (TED)	DARBS-STAR
Teterboro (TEB)	LEWKE GIJ EVOTE NELLS KEEHO JHW J70 LVZ
	WILKES BARRE-STAR
Trenton (TTN)	LEWKE GIJ J146 CXR EWC JST BUNTS-STAR
Washington Dulles (IAD)	LEWKE GIJ OTENS ANEWA RIEKE DJB J34 AIR
	MGW MGW121 VERNI ESL ROYIL-STAR
	or
	(GPS or DME/DME-IRU equipped) LEWKE GIJ
	OTENS ANEWA RIEKE DJB J34 AIR MGW VERNI
	ESL SHNON (RNAV)-STAR
Washington Natl (DCA)	(GPS or DME/DME-IRU equipped) GIJ J146 J34
(= = /	BUCKO ELDEE (RNAV)-STAR
	or
	LEWKE GIJ OTENS ANEWA RIEKE DJB J34 SHAAR
	WZRRD-STAR
	or
	(GPS or DME/DME-IRU equipped) LEWKE GIJ
	OTENS ANEWA RIEKE DJB J34 SHAAR ELDEE
	(RNAV)-STAR
White Plains (HPN)	LEWKE GIJ EVOTE NELLS KEEHO JHW ITH DNY
	VALRE-STAR
Windsor Locks (BDL)	LEWKE GIJ EVOTE NELLS KEEHO JHW J82 WILET
OHIOACO OHI (ORR)k-	SWEDE-STAR
CHICAGO O'Hare (ORD) only	MODI E ADIME OTENO MAN MED VO DALTO
Akron (CAK)	MOBLE ADIME OTENS VWV MFD V8 DALTS
Albany (ALB)	EBAKE WISMO POSTS PADDE SVM DKK
Allentown (ABE)	MOBLE ADIME GERBS J146 MIP
Andrews AFB (ADW)	MOBLE ADIME OTENS ANEWA RIEKE DJB J34
	SHAAR WZRRD-STAR
Atlanta (ATL)	CMSKY CARYN CYBIL PXV J73 BNA ROME-STAR
	or
	CMSKY CARYN CYBIL PXV BNA ERLIN
	(RNAV)-STAR
Atlantic City (ACY)	MOBLE ADIME GERBS J146 CXR EWC JST J152
	HAR SIE
Baltimore (BWI)	MOBLE ADIME OTENS ANEWA RIEKE DJB J34 AIR
	KEMAN WESTMINSTER-STAR
Bedford (BED)	EBAKE WISMO POSTS PADDE SVM DKK ALB GDM
	V431 LOBBY
Birmingham (BHM)	CMSKY CARYN CYBIL PXV
Boca Raton (BCT)	(GPS or DME/DME-IRU equipped) GUIDO J73
	SZW PRRIE (RNAV)-STAR
	or
	(GPS or DME/DME-IRU equipped) EON DNV TTH
	SWAPP ATL J89 PRRIE (RNAV)-STAR
	or
	(GPS or DME/DME-IRU equipped) DENNT DARCY
	DREGS DUMGE SWAPP ATL J89 OTK PRRIE
	(RNAV)-STAR
Boston (BOS)	EBAKE WISMO POSTS PADDE SVM DKK ALB
	GARDNER-STAR
Bristol/Johnson/Kingsport (TRI)	EARND ELANR EMMLY ETAME EMEGE FLM
Buffalo (BUF)	DUFEE ELX HAAKK DOXXY SOSIC COHOW DKK
Burlington (BTV)	EBAKE WISMO POSTS PADDE SVM DKK SYR J29
Burnington (BTV)	LAGGS
Charlaston (CHS_CDW)	EARND ELANR EMMLY ETAME EMEGE FLM
Charleston (CHS, CRW)	
Charlotte (CLT)	EARND ELANR EMMLY ETAME FLM JOHNS
01	(RNAV)-STAR
Chattanooga (CHA)	DENNT DARCY DREGS DONVE BWG
Cincinnati (CVG)	DENNT DARCY DNV CEGRM (RNAV)-STAR
	or
	DENNT DARCY DNV SHELBYVILLE-STAR
Cleveland (CLE)	DUFEE ELX HIMEZ-STAR
Columbia (CAE)	EARND ELANR EMMLY ETAME EMEGE FLM
Columbus (CMH)	MOBLE ADIME SEWTO FWA GUNNE-STAR

Terminals	Route	Effective Times (UTC)
Dallas/Fort Worth (DFW)	ACITO ADELL ARLYN STL RZC FSM BONHAM-STAR	
Denver (DEN)	IOW DSM J10 LBF SAYGE-STAR	
Detroit Metro-Wayne Co (DTW)	DBQ J94 ONL J114 SNY LANDR-STAR PETTY MKG POLAR-STAR	
Detroit Metro Area (DET, CYQG, PTK, YIP, ARB)	PETTY GRR LAN SPRTN-STAR	1200-0400
Evansville (EVV)	DENNT DARCY DREGS DONVE	1200-0400
Fort Lauderdale (FLL)	DENNT DARCY DREGS DUMGE SWAPP ATL J89 OTK JINGL (RNAV)-STAR	
	DENNT DARCY DREGS SWAPP ATL J89 OTK JINGL	
	(RNAV)-STAR(GPS or DME/DME-IRU equipped) EON DNV TTH	
	IIU J99 VXV J46 AMU TAY JINGL (RNAV)-STAR	
Fort Myers (RSW)	(GPS or DME/DME-IRU equipped) CMSKY CARYN	
	CYBIL PXV J73 SZW TYNEE (RNAV)-STAR	
	or (GPS or DME/DME-IRU equipped) GUIDO J73 PXV J73 SZW TYNEE (RNAV)-STAR	
Greensboro (GSO)	EARND ELANR EMMLY ETAME EMEGE FLM PSK	
Greenville/Spartanburg (GSP)	SMOKN-STAREARND ELANR EMMLY ERECO IIU	
Harrisburg (MDT)	MOBLE ADIME GERBS J146 CXR EWC HAR	
Houston (HOU)	(GPS or DME/DME-IRU equipped) BACEN BLOKR	
	BEKKI FAM J137 LIT J180 SWB ROKIT (RNAV)-STAR or	
	(Non-advanced NAV only) BACEN BLOKR BEKKI	
Houston (IAH)	FAM J137 LIT J180 SWB DAS-STAR(Turbojets-GPS or DME/DME-IRU equipped)	
	BACEN BLOKR BEKKI FAM J137 LIT J180 SWB TXMEX (RNAV)-STAR	
	or (Non-advanced NAV only) BACEN BLOKR BEKKI	
	FAM J137 LIT J180 SWB DAS-STAR	
Huntsville (HSV)	DENNT DARCY DREGS DONVE BWG	
Hyannis (HYA)	EBAKE WISMO POSTS PADDE SVM DKK ALB ENE LFV	
Indianapolis (IND)	EARND ELANR EMMLY JAKKS	
Jacksonville (JAX)	DENNT DARCY DREGS DUMGE SWAPP ATL AMG	
Kennedy (JFK)	ALMA-STAR DUFEE ELX HAAKK DOXXY SOSIC JHW J70 LVZ	
	LENDY-STAR	
Knoxville (TYS)	EARND ELANR EMMLY ETAME EMEGE J43 VXV	
La Guardia (LGA) Louisville (LOU)	MOBLE ADIME GERBS J146 ETG MILTON-STAR DENNT DARCY DREGS DUMGE CHERI	
Manchester (MHT)	EBAKE WISMO POSTS PADDE SVM DKK ALB EEN.	
Memphis (MEM)	BACEN BLOKR BEKKI FAM ARG GILMORE-STAR	
	or CMSKY CARYN CYBIL PXV WLDER-STAR	
Miami (MIA)	DENNT DARCY DREGS DUMGE SWAPP ATL SZW J43 PIE CYPRESS-STAR	
	or (Turbojets-GPS or DME/DME-IRU equipped)	
	DENNT DARCY DREGS DUMGE SWAPP ATL J89	
	SSCOT (RNAV)-STAR	
	or (Turbojets-GPS or DME/DME-IRU equipped)	
	GUIDO J73 SZW SSCOT (RNAV)-STAR	
	or (Turbojets-GPS or DME/DME-IRU equipped) EON DNV TTH IUU J99 VXV J46 AMG TAY SSCOT	
	(RNAV)-STAR	
	or	
EC. 23 S	SEP 2010 to 18 NOV 2010	

Effective Times (UTC)

1200-0400

1100-0400

1200-0400

rminals	Route EON DNV TTH SWAPP ATL SZW J43 PIE
	CYY-STAR
Minneapolis (MSP)	PLL PLL275065 ALO KASPR-STAR
Nashville (BNA)	CMSKY CARYN CYBIL PXV CCT HEHAW-STAR
Niagara Falls (IAG)	EBAKE WISMO POSTS PADDE SVM YXU
Newark (EWR)	DUFEE ELX HAAKK DOXXY SOSIC KEEHO J584
Newark (LWIK)	SLT FQM WILLIAMSPORT-STAR
New Orleans (MSY)	BACEN BLOKR BEKKI ENL J71 MEM J35 MCB
New Orleans (WST)	RYTHM-STAR
	or
	EARND ELANR EMMLY ERECO IIU RYANS
Norfolk (ORF)	EARND ELANR EMMLY ETAME EMEGE FLM J24
Nortolk (Old)	MOL TERKS-STAR
Newburgh (SWF)	DUFEE ELX HAAKK DOXXY SOSIC JHW ITH DNY
Newburgh (OW)	V483 FILPS
New Haven (HVN)	DUFEE ELX HAAKK DOXXY SOSIC JHW RKA
New naveli (nviv)	
Orlanda (MCO (OBL)	DENNA-STAR
Orlando (MCO/ORL)	DENNT DARCY DREGS DUMGE SWAPP ATL J89
	OTK PIGLT (RNAV)-STAR
	OF
	DENNT DARCY DREGS DUMGE SWAPP ATL
	LEESE-STAR
	OF
	DENNT DARCY DREGS DUMGE SWAPP ATL J89
B	OTK LEESE-STAR
Philadelphia (PHL)	MOBLE ADIME GERBS J146 CXR EWC JST
	BUNTS-STAR
Phoenix (PHX)	MZV STJ J18 GCK J96 ZUN EAGUL (RNAV)-STAR
	or
	MZV LMN J64 HLC LAA J102 GUP EAGUL
Division of CDITA	(RNAV)–STAR
Pittsburgh (PIT)	MOBLE ADIME OTENS ANEWA RIEKE DJB ACO
	CUTTA-STAR
Portland (PWM)	EBAKE WISMO POSTS PADDE SVM DKK ALB CON
	PARSO
	or MOBLE ADIME GERBS J146 CXR EWC JST SIE
Providence (PVD)	DUFEE ELX HAAKK DOXXY SOSIC JHW J82
Trovidence (I VD)	MEMMS J522 HNK TEDDY-STAR
Raleigh/Durham (RDU)	EARND ELANR EMMLY ETAME EMEGE FLM BKW
rtaleign/ barnam (rtbb)	ROA SOUTH BOSTON-STAR
Richmond (RIC)	EARND ELANR EMMLY ETAME EMEGE FLM J24
Kiciiiiolia (Kic)	
Poppoko (POA)	FAK EARND ELANR EMMLY ETAME EMEGE FLM
Roanoke (ROA) Rochester (ROC)	DUFEE ELX HAAKK DOXXY SOSIC COHOW DKK
Modificater (MOO)	
Saint Botorchurg (Classyster (BIE)	BUF
Saint Petersburg/Clearwater (PIE)	CMSKY CARYN CYBIL PXV J73 SZW
Con Juan (TICI)	DARBS-STAR
San Juan (TJSJ)	
Sarasota/Bradenton (SRQ)	CMSKY CARYN CYBIL PXV J73 SZW CLAMP-STAR EBAKE WISMO POSTS PADDE SVM DKK
Syracuse (SYR) Tampa (TPA)	CMSKY CARYN CYBIL PXV J73 SZW
таттра (ТЕМ)	
	DARBS-STAR
	or CMSKY CARYN CYBIL PXV J73 SZW FOOXX
Washington Dulles (IAD)	(RNAV)–STAR MOBLE ADIME OTENS ANEWA RIEKE DJB J34 AIR
Washington Dulles (IAD)	MGW MGW121 VERNI ESL ROYIL-STAR
	(CPS or DME /DME_IPH oquipped) MORLE ADIME
	(GPS or DME/DME-IRU equipped) MOBLE ADIME
	OTENS ANEWA RIEKE DJB J34 AIR MGW VERNI
	ESL SHNON (RNAV)-STAR
	MOBLE ADIME OTENS ANEWA RIEKE DJB J34
Washington Natl (DCA)	
Washington Natl (DCA)	BUCKO BUCKO-STARor

Effective Times

B	Time
	(UTC
SHAAR WZRRD-STAR	
or	
OTENS ANEWA RIEKE DJB J34 SHAAR ELDEE	
DUFEE ELX HAAKK DOXXY SOSIC JHW ITH DNY	
DUFEE ELX HAAKK DOXXY SOSIC JHW J106 LVZ	
SWEDE-STAR	
(RNAV only) CHCLL-DP BWG ERLIN (RNAV)-STAR. or	
(all others) BLUEGRASS-DP BWG ROME-STAR	
(above FL220-GPS or DME/DME-IRU equipped)	
GIPLE (RNAV)-DP YRK HVQ J8 CSN RAVNN (RNAV)-STAR	
or	
(above FL220-all others) RHOMM-DP YPK HVQ J8 CSN OTT-STAR	
or	
(above FL230–GPS or DME/DME-IRU equipped)	
GIPLE (RNAV)-DP HVQ J8 CSN RAVNN (RNAV)-STAR	
or	
(above FL230-all others) RHOMM-DP HVQ J8 CSN NOTTINGHAM-STAR	
(RNAV only) SILKS TRFWA LVT SYI VUZ	
(all others) BLUEGRASS-DP TRFWA LVT SYI VUZ	
(GPS or DME/DME-IRU equipped) KENLN-DP	
TRFWA NOTWO WALET HITTR LATHY PRRIE (RNAV)-STAR	
or	
(GPS or DME/DME-IRU equipped) KENLN-DP	
HYK VXV J43 ATL J89 OTK PRRIE (RNAV)-STAR.	
(RNAV only) ROCKT (RNAV)-DP AHTIY PSB HNK	
ROYKO (RNAV)—STAR	
or	
* * * * * * * * * * * * * * * * * * * *	
(RNAV only) CHCLL IIU PXV J131 LIT BYP	
(all others) BLUEGRASS-DP IIU PXV J131	
TRFWA NOTWO OTK JINGL (RNAV)-STAR	
or (all others) BLUEGRASS-DP HYK VXV J43 ATL J89	
HITTR J75 FORTL-STAR	
(Turbojets-GPS or DME/DME-IRU equipped)	
KENLN (RNAV)-DP HYK VXV J43 SZW TYNEE	
or	
(all others-Turbojets) BLUEGRASS-DP HYK VXV	
	OF (GPS OR DME/DME-IRU equipped) MOBLE ADIME OTENS ANEWA RIEKE DJB J34 SHAAR ELDEE (RNAV)—STAR

'erminals	Poute	Effective Times
Fort Myers (RSW)	(GPS or DME/DME-IRU equipped) KENLN	(UTC)
	(RNAV)-DP HYK VXV J43 SZW TYNEE (RNAV)-STAR	1100-0300
	or (all others) BLUEGRASS-DP HYK VXV J43 SZW	
Harrisburg (MDT)	PIE JOSFF-STAR(RNAV)-DP AHTIY JST HAR	1100-0300
Houston (HOU)	(GPS or DME/DME–IRU equipped) CHCLL	
	(RNAV)-DP BWG J6 LIT J180 SWB ROKIT	
	(RNAV)–STARor	
	(Non-advanced NAV only) BLUEGRASS-DP BWG	
Houston (IAH)	J6 LIT J180 SWB DAS-STAR(Turbojets-GPS or DME/DME-IRU equipped) LIT	
	J180 SWB TXMEX (RNAV)-STAR	
	or (Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR	
Jackson (JAN)	(RNAV only) SILKS TRFWA LVT SYI VUZ JAN	
	(all others) BLUEGRASS-DP TRFWA LVT SYI VUZ	
Lo Cuardia (LGA)	JAN	
La Guardia (LGA)	(RNAV only) ROCKT (RNAV)-DP AHTIY PSB MILTON-STAR	1000-1800
Manchester (MHT)	(RNAV only) ROCKT (RNAV)-DP AHTIY PSB ALB	
Marco Island (MKY)	(RNAV only) KENLN (RNAV)-DP HYK VXV J43 SZW	
,	PIKKR (RNAV)-STAR	
	or (all others) BLUEGRASS-DP HYK VXV J43 SZW	
	PIKKR (RNAV)-STAR	
Miami (MIA)	(Turbojets-GPS or DME/DME-IRU equipped)	
	SILKS-DP TRFWA NOTWO SZW SSCOT (RNAV)-STAR	
	or	
	(all others) BLUEGRASS-DP HYK VXV J43 ATL SZW J43 PIE CYY-STAR	
Mobile (MOB)	(RNAV only) SILKS (RNAV)-DP TRFWA LVT SYI	
	VUZ SJI	
	or (all others) BLUEGRASS-DP TRFWA LVT SYI	
	VUZ SJI	
Naples (APF)	(GPS required) BLUEGRASS-DP HYK VXV J43 SZW PIKKR (RNAV)-STAR	
Newark (EWR)	(RNAV only) BNGLE (RNAV)-DP DJB J29 J584 SLT	
	WILLIAMSPORT-STAR	
	or (all others) CVG033 RIKLE DJB J29 J584 SLT	
	FQM-STAR	
Newburg (SWF)	(RNAV only) ROCKT (RNAV)–DP AHTIY PSB J49 HNK DNY V483 FILPS	
New Orleans (MSY)	(RNAV only) SILKS (RNAV)–DP TRFWA LVT SYI VUZ	
	J22 MEI RYTHM-STAR	
	or (all others) BLUEGRASS-DP TRFWA LVT SYI VUZ	
	J22 MEI RYTHM-STAR	
Orlando (MCO)	(GPS or DME/DME-IRU euipped) KENLN (RNAV)-DP HYK VXV J99 IRQ J85 AMG BUGGZ	
	(RNAV)-STAR	1100-0400
	or (all others) BLUEGRASS-DP HYK VXV J99 IRQ J85	
	AMG LEESE-STAR	1100-0300
Orlando (ORL)	(GPS or DME/DME-IRU equipped) KENLN	
	(RNAV)-DP HYK VXV J99 IRQ J85 AMG SHEMP MTATA PIGLT (RNAV)-STAR	1100_0400
	or	1100-0400

PK	EFERRED IFR ROUTES	3
Towningle	Pauta	Effective Times
Terminals	Route (all others) BLUEGRASS-DP HYK VXV J99 IRQ J85	(UTC)
Philadelphia (PHL)	AMG LEESE-STAR (RNAV only) ROCKT (RNAV)-DP AHTIY JST BOJID (RNAV)-STAR	1100-0300
Phoenix (PHX)	(Turbojets-all others) BLUEGRASS-DP IIU PXV J78 IRW J74 CNX ZUN BUNTR-STAR	
	(Turbojets–all others) BLUEGRASS–DP IIU PXV J78 ZUN BUNTR–STAR	
	or (RNAV only-Turbojets) CHCLL (RNAV)-DP IIU PXV J78 ZUN EAGUL (RNAV)-STAR or	
	(RNAV only–Turbojets) CHCLL (RNAV)–DP IIU PXV J78 IRW J74 CNX ZUN EAGUL (RNAV)–STAR	
Portland (PWM)	(RNAV only) ROCKT (RNAV)-DP AHTIY PSB J49 ALB ENE	
Providence (PVD)	(RNAV only) ROCKT (RNAV)-DP AHTIY PSB J49 HNK TEDDY-STAR	
Sarasota/Bradenton (SRQ)	(RNAV only) KENLIN (RNAV)-DP HYK VXV J43 SZW CLAMP-STAR	
	(all others) BLUEGRASS-DP HYK VXV J43 SZW CLAMP-STAR	
Tampa (TPA)	(GPS or DME/DME-IRU equipped) KENLN (RNAV)-DP HYK VXV J43 SZW FOXXX (RNAV)-STAR	
	or (all others) BLUEGRASS-DP HYK VXV J43 SZW DARBS-STAR	
Washington (DCA)	(RNAV only) RHOMM-DP HVQ ELDEE (RNAV)-STAR	
Washington (IAD)	(all others) GIPLE (RNAV)-DP HVQ WZRRD-STAR (RNAV only) GIPLE (RNAV)-DP HVQ SHNON (RNAV)-STAR	
West Palm Beach (PBI)	or (all others) RHOMM-DP HVQ ROYIL-STAR(GPS or DME/DME-IRU equipped) SILKS (RNAV)-DP TRFWA NOTWO OTK WLACE (RNAV)-STAR	
	or (GPS or DME/DME-IRU equipped) KENLN (RNAV)-DP HYK VXV J43 ATL J89 OTK WLACE (RNAV)-STAR	
Wilkes Barre/Scranton (AVP) Windsor Locks (BDL)	(RNAV only) ROCKT (RNAV)-DP AHTIY PSB LVZ (RNAV only) ROCKT (RNAV)-DP AHTIY RKA SWEDE	
From LUNKEN (LUK) only:	SWEDE-STAR	
Albany (ALB)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB	
Boston (BOS)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB HNK ALB GDM GARDNER-STAR	
La Guardia (LGA)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB MILTON-STAR	1000–1800
Manchester (MHT)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB ALB EEN	
Newburgh (SWF)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Philadelphia (PHL)	AHTIY PSB J49 HNK DNV V483 FILPS(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Providence (PVD)	AHTIY JST BUNTS-STAR(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
Portland (PWM)	AHTIY PSB J49 HNK TEDDY-STAR (RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 ALB ENE	
Wilkes Barre/Scranton (AVP)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB LVZ	

Route

Terminals

Terminals	Route
Windsor Locks (BDL)	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE
	AHTIY PSB RKA SWEDE SWEDE-STAR
CLEVELAND METRO (CLE, CGF, BKL,	
LNN, LPR)	
	(DNAV
Atlanta (ATL)	(RNAV only) DJB DJB173 HERAK APE035 APE
	J186 SOT ODF FLCON (RNAV)-STAR
	or
	(all others) DJB DJB173 HERAK APE035 APE
	J186 SOT ODF WHINZ-STAR
Battle Creek (BTL)	AMRST-DP VWV
Birmingham (BHM)	DJB DJB173 HERAK APE035 APE J186 BULEY
Boca Raton (BCT)	(GPS or DME/DME-IRU equipped) DJB DJB173
	HERAK APE035 APE J83 SPA J85 TAY PRRIE
	(RNAV)-STAR
Charleston (CHS)	DJB DJB173 HERAK APE035 APE J186 BULEY
Charleston (CRW)	DJB DJB173 HERAK APE035 APE
Charlotte (CLT)	DJB DJB173 HERAK APE035 APE HVQ HMV
Ondriotto (OE1)	
0.1	JOHNS (RNAV)-STAR
Chicago Midway (MDW)	AMRST-DP VWV GSH GSH-STAR
Chicago O'Hare (ORD)	AMRST-DP VWV ZANLA WATSON (RNAV)-STAR
	or
	AMRST-DP VWV OXI KNOX-STAR
Chicago Rockford (RFD)	ALPHE-DP ALPHE J70 PMM
Cincinnati (CVG)	(RNAV only) DJB HERAK APE TIGRR (RNAV)-STAR.
	or
	(all others) DJB DJB173 HERAK APE035 APE
	,
	CINCE-STAR
Dallas/Fort Worth (DFW)	OBRLN-DP RID RID234/40 PXV LIT
	BONHAM-STAR
Denver (DEN)	AMRST-DP VWV GSH
Elkhart (EKM)	AMRST-DP VWV GSH
Fort Lauderdale (FLL)	DJB DJB173 HERAK APE035 APE J83 SPA J85
(- ==/	TAY J75 HITTR PIE FORTL-STAR
	or
	(GPS or DME/DME-IRU equipped) DJB DJB173
	HERAK APE035 APE J83 SPA J85 TAY J75
	JINGL (RNAV)-STAR
Fort Myers (FMY)	DJB DJB200 APE021 APE J186 J91 VXV J43 SZW
,	TYNEE (RNAV)-STAR
Fort Muoro (DSW)	
Fort Myers (RSW)	(GPS OR DME/DME-IRU equipped) DJB DJB173
	HERAK APE035 APE J186 J91 VXV J43 SZW
	TYNEE (RNAV)-STAR
Fort Wayne (FWA)	OBRLN-DP FWA
Grand Rapids (GRR)	(RNAV only) ALPHE-DP ALPHE
Greensboro (GSO)	DJB DJB173 HERAK APE035 APE J186 BULEY
Houston (HOU)	(GPS or DME/DME-IRU equipped) OBRLN-DP RID
nouston (noo)	RID234/40 PXV LIT J180 SWB ROKIT
	(RNAV)-STAR
	or
	(Non-advanced NAV only) OBRLN-DP RID
	RID234/40 PXV LIT J180 SWB DAS-STAR
Houston (IAH)	(Non-advanced NAV only) OBRLN-DP RID
	RID234/40 PXV LIT J80 SWB DAS-STAR
	or
	(Turbojets-GPS or DME/DME-IRU equipped)
	OBRLN-DP RID234/40 PXV LIT J180 SWB
	TXMEX (RNAV)-STAR
Jacksonville (JAX)	DJB DJB173 HERAK APE035 APE J83 SPA J85
, ,	AMG ALM-STAR
Kalamazoo /Pattle Crook (AZO)	
Kalamazoo/Battle Creek (AZO)	AMRST-DP VWV
Kansas City (MCI)	OBLRN-DP VHP J80 SPI BRAYMER-STAR
Kennedy (JFK)	FAILS V522 ERI JHW J70 LVZ LENDY-STAR
La Guardia (LGA)	V522 FAILS V188 JFN ETG MIP-STAR
Knoxville (TYS)	DJB DJB173 HERAK APE035 APE J186 BULEY
Las Vegas (LAS)	OBRLN-DP VHP STL
S , ,	**

or

PF	REFERRED IFR ROUTES	36
Terminals	Route	Effective Times (UTC)
	AMRST-DP VWV GSH	, , ,
Lewisburg (LWB)	DJB DJB173 HERAK APE035 APE	
Lexington (LEX)	OBRLN-DP ROD CVG CLEGG-STAR	
Little Rock (LIT)	OBLRN-DP RID RID234/40 PXV	
Los Angeles (LAX)	AMRST-DP VWV GSH	
Louisville (SDF)	OBRLN-DP ROD CVG REDSTONE-STAR	
Minneapolis (MSP)	(RNAV only) ALPHE-DP ALPHE J70 PMM BAE EAU-STAR	
	Or	
Madison (MSN)	AMRST-DP CRL J34 BAE EAU-STAR	
Marco Island (MKY)	(RNAV only) ALPHE-DP ALPHE J70 PMM DJB DJB200 APE021 APE J186 J91 VXV J43 SZW PIKKR (RNAV)-STAR	
	or	
	DJB DJB200 APE021 APE J186 J91 ATL J89 J75 TEPEE ZEILR-STAR	
Memphis (MEM)	OBRLN-DP RID RID234/40 PXV WLDER-STAR	
Miami (MIA)	DJB DJB173 HERAK APE035 APE J83 SPA J85 TAY J75 HITTR PIE CYPRESS-STAR	
	or (/E/G/R/J/L/Q only) DJB DJB173 HERAK	
	APE035 APE J83 SPA J85 TAY J75 RSW DEEDS	
Milwaukoo (MKE)	(RNAV)-STAR	
Milwaukee (MKE)	AMRST-DP CRL CRL316/75 MKG V2 SUDDS DJB DJB173 HERAK APE035 APE	
Naples (APF)	DJB DJB200 APE021 APE J186 J91 VXV J43 SZW	
Nechville (DNA)	PIKKR (RNAV)-STAR	
Nashville (BNA) Newark (EWR)	OBRLN-DP IIU GUITR-STAR	
New Orleans (MSY)	V522 J584 SLT FQM-STAROBRLN-DP RID IIU MCB RYTHM-STAR	
Orlando (ORL)	(RADAR and DME required) DJB DJB200 APE021	
Offarido (ONE)	APE J83 SPA CAE SAV OMN CORLL-STAR	1100-0400
Orlando (MCO)	DJB DJB173 HERAK APE035 APE J83 SPA CAE SAV OMN BITHO-STAR	1100-0400
	or (GPS or DME/DME-IRU equipped) DJB DJB173	
	HERAK APE035 APE J83 SPA CAE SAV OMN	
	CWRLD (RNAV)-STAR	1100-0400
Palwaukee (PWK)	(RNAV only) ALPHE–DP ALPHE J70 PMM OBK	
Philadelphia (PHL)	ACO ACO145 J518 J152 HAR V210 BUNTS	
Phoenix (PHX)	OBRLN-DP VHP STLor	
	AMRST-DP VWV GSH	
Raleigh/Durham (RDU)	DJB DJB173 HERAK APEO35 APE HVQ BKW ROA SOUTH- BOSTON-STAR	
San Antonio (SAT)	OBRLN-DP RID RID234/40 PXV J131 LIT J101	
San Antonio (SAT)	LFK MARCS-STAR	
San Francisco (SF0)	AMRST-DP VWV GSH	
St. Louis (STL)	OBRLN-DP VHP VANDALIA-STAR	
Sarasota/Bradenton (SRQ)	DJB DJB200 APE021 APE J186 J91 VXV J43 SZW	
Seattle/Tacoma (SEA)	CLAMP-STAR(RNAV only) ALPHE-DP ALPHE J70 PMMor	
	(RNAV only) ALPHE-DP ALPHE J34 BAE	
South Bend (SBN)	AMRST-DP VWV GSH	
Tampa (TPA)	DJB DJB173 HERAK APE035 APE J186 J91 VXV J43 SZW DARBS-STAR	
	or (GPS or DME/DME-IRU equipped) DJB DJB173	
	HERAK APE035 APE J186 J91 VXV J43 SZW FOXXX (RNAV)-STAR	
Toledo (TOL)	AMRST-DP VWV	
Toronto (CYYZ)	FAILS V443 DOGGS YXU V098 YWT YWT-STAR	
West Chicago/Dupage (DPA)	AMRST-DP VWV EON JOT	
West Palm Beach (PBI)	(GPS or DME/DME-IRU equipped) DJB DJB173	
	HERAK APE035 APE J83 SPA J85 TAY WLACE or	
FC 23.9	SEP 2010 to 18 NOV 2010	
23.200		

F erminals	Route	Effective Times (UTC)
Naples (APF)	V47 CVG HYK VXV J43 SZW PIKKR (RNAV)-STAR	
Orlando Executive (ORL)	V47 CVG HYK VXV J99 IRQ J85 AMG LEESE–STARor	1100-0300
	(GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J99 IRQ J85 AMG SHEMP MTATA PIGLT	
Orlando Intl (MCO)	(RNAV)-STAR V47 CVG HYK VXV J99 IRQ J85 AMG LEESE-STAR	1100-0400 1100-0300
	or (GPS or DME/DME–IRU equipped) V47 CVG HYK	1100 0000
Sarasota/Bradenton (SRQ)	VXV J99 IRQ J85 AMG BUGGZ (RNAV)-STAR V47 CVG HYK VXV J43 SZW CLAMP-STAR V47 CVG HYK VXV J43 SZW DARBS-STAR	1100-0400
	or (GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J43 SZW FOXXX (RNAV)-STAR	
West Palm Beach (PBI)	(GPS or DME/DME-IRU equipped) V47 CVG HYK VXV J99 IRQ J85 TAY WLACE or	1100-0300
DETROIT METRO AREA (DELL PET VOC	V47 CVG HYK VXV J99 IRQ TAY WLACE (RNAV)-STAR	1100-0300
DETROIT METRO AREA (DTW, DET, YQG, PTK, YIP, ARB)		
Albany (ALB)	MOONN-DP JHW	
Allentown (ABE)	ERRTH-DP ETG RICHMOND-DP RID IIU BWG ROME-STAR or	
	(RNAV only) RICHMOND-DP RID IIU BWG ERLIN (RNAV)-STAR	
Atlantic City (ACY)	ERRTH-DP CXR EWC JST J152 HAR SIE ACO AIR AIR111 KEMAN WESTMINSTER-STAR	
Bedford (BED)	MOONN-DP JHW J82 ALB	
Binghamton (BGM)	MOONN-DP JHW	
Birmingham (BHM)	RICHMOND-DP RID IIU MOONN-DP JHW J82 ALB GARDNER-STAR	
Buffalo (BUF)	(60–170 incl) MOONN–DP BROKK DKK	
Burlington (BTV)	MOONN-DP J29 JHW LAGGS	
Cancun (MMUN) Charleston (CHS)	RICHMOND-DP RID IIU ROSEWOOD-DP ROD FLM HMV	
Charleston (CRW	ACO AIR HVQ	
	or (Turboprops/Props-at or below FL210) SCORR CHOOT APE HVQ	
Charlotte (CLT)	ROSEWOOD-DP ROD FLM HMV JOHNS (RNAV)-STAR	
Chicago MIdway (MDW) Cincinnati (CVG)	JXN V116 LEROY GSH GSH-STARFDY DEBAR-STAR	
Cleveland Metro Area (CLE) (CGF) (BKL) (LNN) (LPR)	MAARS HIMEZ HIMEZ-STAR	
Columbus (CMH)	SCOOR CHOOT YOGGI GUNNE-STAR	
Dallas/Fort Worth (DFW) Denver (DEN)	FORT WAYNE-DP FWA RBS STL RZC FSM BONHAM-STAR DUNKS J70 PMM J94 ONL J114 SNY	
2551 (DEN)	LANDR-STAR	1100-0359
Elmira (ELM) Ft. Lauderdale (FLL)	MOONN-DP JHW ROSEWOOD-DP ROD FLM VXV CRG OMN GISSH-STAR	
	or ROSEWOOD-DP ROD FLM VXV CRG OMN FISEL	
Fort Myers (FMY & RSW)	(RNAV)-STAR(Turbojets-GPS or DME/DME-IRU equipped) ROSEWOOD-DP ROD FLM VXV AMG SHFTY	
	(RNAV)–STAR	
Greensboro (GSO)		

	B. L.	Effective Times
erminals Houston (HOU)	Route (GPS or DME/DME-IRU equipped) RID-DP RID PXV J131 LIT J180 SWB ROKIT (RNAV)-STAR or	(UTC)
	or (Non-advanced NAV only) RID-DP RID PXV J131 LIT J180 SWB DAS-STAR	
Houston (IAH)	CAVVS VWV ROD J29 PXV J131 LIT J180 CLUBS DAS-STAR	
	or (Turbojets-GPS or DME/DME-IRU equipped) RID-DP RID PXV J131 LIT J180 SWB TXMEX (RNAV)-STAR	
	(Non-advanced NAV only) RID-DP RID PXV J131 LIT J180 SWB DAS-STAR	
Huntsville (HSV)		
Jacksonville (JAX) Kennedy (JFK)	ROSEWOOD-DP ROD FLM VXV AMG ALMA-STAR MOONN-DP JHW J70 LVZ LENDY-STAR	
La Guardia (LGA)		
Lexington (LEX)		1100-03
Los Angeles (LAX)		1100-03
Manchester (MHT)		
Memphis (MEM)		
Miami (MIA)	(RNAV only) ROSEWOOD-DP ROD FLM VXV CRG OMN HILEY (RNAV)-STAR or	
	ROSEWOOD-DP ROD FLM VXV CRG OMN ANNEY-STAR	
Minneapolis (MSP)	TYCOB YQG098 J554 JHW J29 SYR ART ART040	1100-03
Myrtle Beach (MYR)	J594 MSS FRANX FRANX-STAR ACO AIR EKN RDU	1100-03
Nashville (BNA)		
Newark (EWR)		
New Orleans (MSY)	RYTHM-STAR	
Niagara Falls (IAG)		
Norfolk (ORF)		
Norwood (OWD) Orlando Exec (ORL)		
	or (GPS or DME/DME-IRU equipped) ROSEWOOD-DP ROD J43 VXV J99 IRQ J85 AMG	
Orlando Intl (MCO)	SHEMP MTATA PIGLT (RNAV)-STAR	1100-04
	(GPS or DME/DME-IRU equipped) ROSEWOOD-DP ROD FLM VXV AMG BUGGZ (RNAV)-STAR	1100-04
Philadelphia (PHL)		1100-04
Pittsburgh (PIT)		
Portland (PWM)	NEETS	
Pottstown (PTW)		
Raleigh/Durham (RDU)		
Reading (RDG)		
D1 1 (D10)		
Richmond (RIC)	ACO AIR EKN ROA	

CH Rochester (ROC)	Route (UTC) OPTOPS/Props/at or below 230) SCORR OOT APE ROA
CH Rochester (ROC)	OOT APE ROA NN-DP BROKK DKK WAYNE-DP FWA RBS STL RZC MLC ACT IRCS-STAR MOND-DP RID RID234/40 PXV J131 TXK I TNV IDU MARCS-STAR (S J70 PMM J94 FMG ILA PYE WOOD-DP RID PLM VXV AMG TAY LAL MOND-DP RID RID234/40 PXV S DX0217 FWA071 FWA RBS VLA-STAR NN-DP JHW WOOD-DP ROD FLM VXV AMG TAY ARD-STAR or Or DME/DME-IRU equipped) ROD-DP ROD M VXV AMG TAY DADES (RNAV)-STAR NN-DP JHW J70 LVZ WILKES BARRE-STAR N DX0020 V450 YWT V216 H-DP CXR EWC JST BUNTS-STAR SIKW ROYIL-STAR OF IU J8 HVQ ROYIL-STAR OF IU J8 HVQ SHNON (RNAV)-STAR ND-DP JHW J70 STW LENDY OF DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY OF DME/DME-IRU equipped)
Rochester (ROC)	NN-DP BROKK DKK. WAYNE-DP FWA RBS STL RZC MLC ACT IRCS-STAR. MOND-DP RID RID234/40 PXV J131 TXK I TNV IDU MARCS-STAR. 45 J70 PMM J94 FMG ILA PYE. EWOOD-DP ROD FLM VXV AMG TAY LAL MOND-DP RID RID234/40 PXV. IS DX0217 FWA071 FWA RBS VLA-STAR NN-DP JHW EWOOD-DP ROD FLM VXV AMG TAY ARD-STAR OF DME/DME-IRU equipped) ROD-DP ROD M VXV AMG TAY DADES (RNAV)-STAR NN-DP JHW J70 LVZ WILKES BARRE-STAR NN-DP JHW J70 LVZ WILKES BARRE-STAR ND-DP CXR EWC JST BUNTS-STAR SIGN SHNON (RNAV)-STAR OF DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY OF DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY OF DME/DME-IRU equipped)
MA	MOND-DP RID RID234/40 PXV J131 TXK ITNV IDU MARCS-STAR KS J70 PMM J94 FMG ILA PYE WOOD-DP ROD FLM VXV AMG TAY LAL MOND-DP RID RID234/40 PXV S DX0217 FWA071 FWA RBS VLA-STAR NN-DP JHW WOOD-DP ROD FLM VXV AMG TAY ARD-STAR or OT DME/DME-IRU equipped) ROD-DP ROD M VXV AMG TAY DADES (RNAV)-STAR NN-DP JHW J70 LVZ WILKES BARRE-STAR N DX0020 V450 YWT V216 H-DP CXR EWC JST BUNTS-STAR SIKW ROYIL-STAR OT DME/DME-IRU equipped) ROD-DP ROD M VXV AMG TAY DADES (RNAV)-STAR N DX0020 V450 YWT V216 H-DP CXR EWC JST BUNTS-STAR SIKW SHNON (RNAV)-STAR OT DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY OT DME/DME-IRU equipped) OT DME/DME-IRU equipped)
San Francisco (SFO)	I TNV IDU MARCS-STAR
San Francisco (SFO)	I TNV IDU MARCS-STAR
San Francisco (SFO) DUNI Sarasota/Bradenton (SRQ) ROSI Shreveport (SHV) RICH St. Louis (STL) ANNI Syracuse (SYR) MOO Tampa (TPA) ROSI LZ (GPS FLI MOO Toronto (TEB) MOO Toronto (CYYZ) PISTI Trenton (TTN) ERRI Washington Dulles (IAD) J42 I V PXV I V PXV I Westhampton Beach (FOK) MOO West Palm Beach (PBI) (GPS RO TU Or ROSI (RI White Plains (HPN) MOO Wilkes-Barre (AVP) MOO	AS J70 PMM J94 FMG ILA PYE WOOD-DP ROD FLM VXV AMG TAY LAL S DX0217 FWA071 FWA RBS VLA-STAR NN-DP JHW WOOD-DP ROD FLM VXV AMG TAY ARD-STAR or DME/DME-IRU equipped) ROD-DP ROD W XXV AMG TAY DADES (RNAV)-STAR NN-DP JHW J70 LVZ WILKES BARRE-STAR N DX0020 V450 YWT V216 H-DP CXR EWC JST BUNTS-STAR SKW ROYIL-STAR OF DME/DME-IRU equipped) ROD-DP ROD W XXV AMG TAY DADES (RNAV)-STAR ND-DP JHW J70 LVZ WILKES BARRE-STAR ND-DP JHW J70 LVZ WILKES BARRE-STAR OF DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY OF DME/DME-IRU equipped) OF DME/DME-IRU equipped)
Shreveport (SHV)	MOND-DP RID RID234/40 PXV 'S DX0217 FWA071 FWA RBS VLA-STAR NN-DP JHW EWOOD-DP ROD FLM VXV AMG TAY ARD-STAR or or DME/DME-IRU equipped) ROD-DP ROD w VXV AMG TAY DADES (RNAV)-STAR NN-DP JHW J70 LVZ WILKES BARRE-STAR N DX0020 V450 YWT V216 H-DP CXR EWC JST BUNTS-STAR SISKW ROYIL-STAR OF DME/DME-IRU equipped) ROD-DP ROD W STAR OF DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY or DME/DME-IRU equipped)
St. Louis (STL)	IS DX0217 FWA071 FWA RBS VLA-STAR NN-DP JHW
Syracuse (SYR)	NN-DP JHW
Tampa (TPA) ROSI LZ. (GPS (GPS FLI Teterboro (TEB) M000 Toronto (CYYZ) PISTI Trenton (TTN) ERRI Washington Dulles (IAD) J42 I PXV I Washington Natl (DCA) (GPS BU Westhampton Beach (FOK) M000 West Palm Beach (PBI) (GPS R00 TU or R0SI White Plains (HPN) M000 Wilkes-Barre (AVP) M000	EWOOD-DP ROD FLM VXV AMG TAY ARD-STAR
CGPS FLI	or DME/DME-IRU equipped) ROD-DP ROD M VXV AMG TAY DADES (RNAV)-STAR N DNOD2D YFO LYZ WILKES BARRE-STAR N DXO02D V450 YWT V216 H-DP CXR EWC JST BUNTS-STAR SIKW ROYIL-STAR OF STAR IU JS HVQ ROYIL-STAR IU JS HVQ ROYIL-STAR IU JS HVQ SHNON (RNAV)-STAR IU JS HVQ SHNON (RNAV)-STAR OF DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY or DME/DME-IRU equipped)
Teterboro (TEB)	W VXV AMG TAY DADES (RNAV)—STAR NN—DP JHW J70 LVZ WILKES BARRE—STAR H—DP CXR EWC JST BUNTS—STAR SKW ROYIL—STAR DI SHAW SHNON (RNAV)—STAR DI SH VQ ROYIL—STAR DI SH VQ SHNON (RNAV)—STAR OT DME/DME—IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)—STAR NN—DP JHW J70 STW LENDY OT DME/DME—IRU equipped)
Teterboro (TEB)	NN-DP JHW J70 LVZ WILKES BARRE-STAR N DX0020 V450 YWT V216
Toronto (CYYZ)	N DX0020 V450 YWT V216
Trenton (TTN)	H-DP CXR EWC JST BUNTS-STAR
Washington Dulles (IAD) J42 I J42 I PXV I PXV I PXV I Washington Natl (DCA) (GPS BU Westhampton Beach (FOK) MOO West Palm Beach (PBI) (GPS RO TU or ROSI White Plains (HPN) MOO Wilkes–Barre (AVP) MOO	BKW ROYIL-STAR
J42 PXV PXV	SKW SHNON (RNAV)—STAR
Washington Natl (DCA) (GPS Westhampton Beach (FOK) MOO West Palm Beach (PBI) (GPS TU or ROSI White Plains (HPN) MOO Wilkes–Barre (AVP) MOO	or IU J8 HVQ ROYIL-STAR IU J8 HVQ SHNON (RNAV)-STAR IU J8 HVQ SHNON (RNAV)-STAR Or DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY or DME/DME-IRU equipped)
PXV PXV	IU J8 HVQ ROYIL-STAR
Washington Natl (DCA) PXV I Westhampton Beach (FOK) MOO West Palm Beach (PBI) (GPS RO TU or ROSI White Plains (HPN) MOO Wilkes-Barre (AVP) MOO	IU J8 HVQ SHNON (RNAV)-STARor DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR
Washington Natl (DCA) (GPS BU BU Westhampton Beach (FOK) MOO West Palm Beach (PBI) (GPS RO TU or ROSI (RI White Plains (HPN) MOO Wilkes-Barre (AVP) MOO	or DME/DME-IRU equipped) ACO AIR J34 CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY or DME/DME-IRU equipped)
BU Westhampton Beach (FOK). MOO Moo West Palm Beach (PBI) (GPS RC TU or ROSI (RI White Plains (HPN). MOO Wilkes-Barre (AVP). MOO M	CKO ELDEE (RNAV)-STAR NN-DP JHW J70 STW LENDY or DME/DME-IRU equipped)
Westhampton Beach (FOK). MOO West Palm Beach (PBI). (GPS RO TU or ROSI (RI White Plains (HPN). Wilkes-Barre (AVP). MOO	NN-DP JHW J70 STW LENDY or DME/DME-IRU equipped)
West Palm Beach (PBI) (GPS RO TU or ROSI (RI White Plains (HPN) MOO Wilkes-Barre (AVP) MOO	or DME/DME-IRU equipped)
TU or ROSI White Plains (HPN) MOO Wilkes–Barre (AVP) MOO	CEMOOD DD DOD ELM VVV ODG OMNI
ROSI (RI White Plains (HPN)	SEWOOD-DP ROD FLM VXV CRG OMN XXI-STAR
White Plains (HPN) M00 Wilkes-Barre (AVP) M00	TWO CO CO TO THE WAY OF COMM FRIEND
White Plains (HPN) M00 Wilkes-Barre (AVP) M00	EWOOD-DP ROD FLM VXV CRG OMN FRWAY NAV)-STAR
Wilkes-Barre (AVP) M00	NN-DP JHW ITH DNY VALRE-STAR
Milmington (II C) EDDI	NN-DP JHW
	H-DP CXR EWC JST BUNTS-STAR
	NN-DP JHW J82 WILET SWEDE-STAR
Winston Salem (INT) AIR E ELKHART (EKM)	KN ROA HENBY
Cleveland Metro Area (CLE) (CGF) (BKL)	
	CRL HIMEZ-STAR
EVANSVILLE (EVV)	
(RI	G/R/J/L/Q only) HEVAN MZZ ROYKO NAV)-STAR
	-advanced RNAV only) HEVAN MZZ
MZ	Z344/33 OXI KNOX-STAR
FLINT (FNT)	· · · · · · · · · · · · · · · · · · ·
	V-only) VWV RID IIU BWG ERLIN NAV)-STAR
VWV	RID IIU BWG ROME-STAR
FORT WAYNE (FWA)	DEBAR-STAR
	DEBAR-STAR
GRAND RAPIDS (GRR) Atlanta (ATL) IIU B	WG ROME-STAR
or	
	V only) IIU BWG ERLIN (RNAV)-STAR DEBAR-STAR

Route

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Terminals

Cleveland Metro (CLE) (CGF) (BKL) (LNN)

Effective Times (UTC)

(LPR)	GRR HIMEZ-STAR	ļ
INDIANAPOLIS (IND)		ļ
Dallas/Fort Worth (DFW)	J24 STL RZC FSM BYP	P
Houston (HOU)	(GPS or DME/DME-IRU equipped) LIT J180 SWB	ľ
	ROKIT (RNAV)-STAR or	ļ
	(Non-advanced NAV only) LIT J180 SWB	,
	DAS-STAR	,
Houston (IAH)	(Turbojets-GPS or DME/DME-IRU equipped) LIT	,
	J180 SWB TXMEX (RNAV)-STAR	ļ
	or (Non–advanced NAV only) LIT J180 SWB	,
	DAS-STAR	,
KALAMAZOO/BATTLE CREEK (AZO)	5	ľ
Cincinnati (CVG)	FWA DEBAR-STAR	ľ
Cleveland Metro Area (CLE, CGF, BKL,		,
LNN, LPR)	LFD CRL HIMEZ-STAR	,
LANSING (LAN)		,
Atlanta (ATL)	(RNAV only) VWV RID IIU BWG ERLIN	,
	(RNAV)-STAR	ľ
	OF	ļ
21-1	VWV RID IIU BWG ROME-STAR	ļ
Cincinnati (CVG)Cleveland Metro Area (CLE, CGF, BKL,	FWA DEBAR-STAR	ļ
LNN. LPR)	SVM HIMEZ-STAR	ļ
MADISON (MSN)	SVM HIMEZ-STAR	,
Cleveland Metro Area (CLE, CGF, BKL,		ľ
LNN, LPR)	SQUIB GRR HIMEZ-STAR	ļ
MILWAUKEE (MKE)	SQUID GRR HINEZ-STAR	ŀ
Akron (CAK)	OBK SAMPL ADIME OTENS VWV MFD V8 DALTS	ŀ
Albany (ALB)	SQUIB MKG ECK YXU BUF	ŀ
Andrews AFB (ADW)	OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34	ļ
•	SHAAR WZRRD-STAR	P
Baltimore (BWI)	OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34	ŀ
•	AIR KEMAN WESTMINSTER-STAR	ŀ
Boca Raton	(GPS or DME/DME-IRU equipped) OBK J73 SZW	ĺ
	PRRIE (RNAV)-STAR	ŀ
Bedford (BED)	SQUIB MKG ECK YXU BUF ALB GDM V431 LOBBY	ĺ
Boston (BOS)	SQUIB MKG ECK YXU BUF ALB GARDNER-STAR	ŀ
Buffalo (BUF)	SQUIB MKG ECK YXU	ŀ
Burlington (BTV)	SQUIB MKG ECK YXU BUF SYR J29 LAGGS	ŀ
Cleveland Metro Area (CLE)	SQUIB LAN SVM HIMEZ-STAR	ŀ
Detroit Metro Area (VIP)	BAE POLAR-STAR	ŀ
Detroit Metro Area (YIP) Flint (FNT)	SQUIB LAN SPRTN-STARSQUIB	ŀ
Fort Lauderdale (FLL)	OBK J73 SZW JINGL (RNAV)-STAR	1100-0300
FOIL Laudeldale (I LL)	or	1100-0000
	(GPS or DME/DME-IRU equipped) OBK J73 SZW	
	JINGL (RNAV)-STAR	1100-0300
Fort Myers (FMY)	OBK J73 SZW TYNEE (RNAV)-STAR	1100-0300
Harrisburg (MDT)	OBK SAMPL ADIME GERBS J146 CXR EWC HAR	
Houston (HOU)	(GPS or DME/DME-IRU equipped) LIT J180 SWB	
	ROKIT (RNAV)-STAR	
	Or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR(Turboists, CDS or DME (DME IDLL oquipped) LIT	
Houston (IAH)	(Turbojets-GPS or DME/DME-IRU equipped) LIT	
	J180 SWB TXMEX (RNAV)-STAR or	ĺ

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		Effective
erminals	Route	Times (UTC)
	(Non-advanced NAV only) LIT J180 SWB	• •
Hyannis (HYA)	DAS-STARSQUIB MKG ECK YXU BUF ENE LFA	
Jackson (JXN)	SQUIB	
Kansas City (MCI)	IRK BRAYMER-STAR	
Kansas City (MKC)	IRK BRAYMER-STAR	
Kennedy (JFK)	SQUIB MKG ECK J16 HANKK J522 HNK IGN KINGSTON-STAR	
La Guardia (LGA)	SQUIB MKG ECK YXU BUF GEE RKA HAARP-STAR.	
Lansing (LAN)	SQUIB	
Mansfield (MFD)	OBK SAMPL ADIME OTENS VWV OBK J73 SZW J43 PIE CYY-STAR or	1100-0300
	(Turbojets-GPS or DME/DME-IRU equipped) OBK	
	J73 SZW SSCOT (RNAV)-STAR	1100-0300
Montreal (CYUL)	SQUIB MKG ECK YYZ J594 MSS	
Morristown (MMU)	SQUIB MKG ECK J16 HANKK IGN WEARD V489	
Nashville (BNA)	COATE OBK J73 PXV CCT HEHAW-STAR	
Newark (EWR)	SQUIB MKG ECK J16 HANKK J522 HNK	
	SHAFF-STAR	
Niagara Falls (IAG)	SQUIB MKG ECK YXU	
Orlando Executive (ORL)	OBK J84 DNV TTH BWG GQO ATL J89 OTK LEESE-STAR	
	or (GPS or DME/DME-IRU equipped) OBK J84 DNV	
	TTH BWG GQO ATL J89 OTK PIGLT (RNAV)-STAR	1100-0400
Orlando Intl (MCO)	OBK J84 DNV TTH BWG GQO ATL J89 OTK	1100-0400
onando ma (moo)	LEESE-STAR	1100-0300
	(GPS or DME/DME-IRU equipped) OBK J84 DNV	
	TTH BWG GQO ATL J89 OTK PIGLT	
Districted (DIII)	(RNAV)-STAR	1100-0400
Philadelphia (PHL)	OBK SAMPL ADIME GERBS J146 CXR EWC JST	
Pittsburgh (PIT)	BUNTS-STAROBK SAMPL ADIME OTENS ANEWA RIEKE DJB	
rittaburgii (i ii)	ACO CUTTA-STAR	
Portland (PWM)	SQUIB MKG ECK YXU BUF ALB CON PARSO	
Pottstown (PTW)	SQUIB ADALE J34 CRL CXR EWC JST	
Providence (PVD)	SQUIB MKG ECK J16 HANKK J522 HNK TEDDY-STAR	
Sarasota/Bradenton (SRQ)	OBK J73 SZW CLAMP-STAR	1100-0300
Syracuse (SYR)	SQUIB MKG ECK YXU BUF	
Tampa (TPA)	OBK J73 SZW DARBS-STARor	1100-0300
	(GPS or DME/DME-IRU equipped) OBK J73 SZW	
	FOXXX (RNAV)-STAR	1100-0300
Teterboro (TEB)	SQUIB MKG ECK J16 HANKK IGN WEARD V489	
Talada (TOL)	COURT PANALIED	
Toledo (TOL) Toronto (CYYZ)	SQUIB PMM LFD	
Washington Dulles (IAD)	SQUIB MKG ECK V216 OBK GIJ J146 J34 DJB J34 AIR MGW MGW121	
Trading builds (IND)	VERNI ESL SHAAR ROYIL-STARor	
	OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34	
	AIR MGW VERNI ESL SHNON (RNAV)-STAR	
Washington Natl (DCA)	OBK GIJ J146 J34 DJB J34 SHAAR WZRRD-STAR. or	
	OBK SAMPL ADIME OTENS ANEWA RIEKE DJB J34	
West Palm Beach (PBI)	SHAAR ELDEE (RNAV)-STAR(GPS or DME/DME-IRU equipped) OBK J73 SZW	
most raini beach (i bi)	WLACE	
White Plains (HPN)	SQUIB MKG ECK J16 BUF ITH DNY VALRE-STAR	
Windsor Locks (BDL)	SQUIB MKG ECK J16 AUDIL SWEDE-STAR	
	OBK SAMPL ADIME GERBS CXR	

Terminals

MOLINE (MLI)

Effective Times (UTC)

1100-0300

Cleveland Metro Area (CLE) (CGF) (BKL)	
(LNN) (LPR)	ELX CRL HIMEZ-STAR
Detroit/Wayne (DTW)	MKG POLAR-STAR
MONTREAL (CYUL)	
Cincinnati (CVG)	(RNAV only) YOW J546 YSO MAULL KODIE CTW
	TIGRR (RNAV)-STAR
	or
	(all others) YOW J546 YSO YYZ JHW JHW194
	MAULL SLT249 KODIE CTW081 CTW
	CINCE-STAR
Detroit/Wayne (DET)	YOW J546
Kennedy (JFK)	V282 J524 BUGSY J570 ALB IGN IGN-STAR
La Guardia (LGA)	V282 J542 BUGSY J570 ALB PWL IGN V157
PEORIA (PIA)	
Detroit/Wayne (DTW)	MKG POLAR-STAR
ROCKFORD (RFD)	
Cleveland Metro Area (CLE) (CGF) (BKL)	
(LNN) (LPR)	ELX CRL HIMEZ-STAR
SAGINAW (MBS)	
Cleveland Metro Area (CLE (CGF) (BKL)	
(LNN) (LPR)	MBS V133 SVM HIMEZ-STAR
SAINT THOMAS (CYQS)	
Detroit Metro Area (DTW, DET, YQG, PTK,	AVVIO DIOCO, OTAD
YIP, ARB)	AXXIS PICES-STAR
SOUTH BEND (SBN)	(DNAV and A) HILDING EDLIN (DNAV) CTAD
Atlanta (ATL)	(RNAV only) IIU BWG ERLIN (RNAV)-STAR
	IIU BWG ROME-STAR
Cincinnati (CVG)	FWA DEBAR-STAR
Cleveland Metro Area (CLE) (CGF) (BKL)	TWA DEDAK-STAK
(LNN) (LPR)	LFD CRL HIMEZ-STAR
TOLEDO (TOL)	ELD ONE THINEE OTHER
Atlanta (ATL)	VWV RID IIU BWG ROME-STAR
TORONTO (CYYZ)	
Cincinnati (CVG)	(RNAV only) THORL JHW MAULL KODIE CTW
	TIGRR (RNAV)-STAR
	or
	(all others) THORL JHW JHW194 MAULL SLT249
	KODIE CTW081 CTW CINCE-STAR
La Guardia (LGA)	(above 250 kts) V252 GEE RKA HAARP-STAR
	or
	(250 kts or less) V252 GEE V14 BEEPS J522
	EXTOL RKA292 RKA NOBBI-STAR
San Francisco (SFO)	GRB J106 GEP J70 ABR J32 FMG ILA PYE

Route

Effective Times

(UTC)

Route

Terminals

Traffic originating east of Chicago Terminating Denver:

PREFERRED IFR ROUTES

DJB	J60 IOW DSM J144 OBH J10 LBF	
	SAYGE-STAR	1300-0100
J16 MCW ONL J114 SNY LANDR-STAR		
STL	STL J110 GCK J154 RYLIE DANDD-STAR	1300-0100
Traffic overflying Cleveland Center and south of S		
HPN	(above 250 kts) SLT J190 CFB DNY280 DNY	
	VALRE-STAR	
	PSB J49 CFB220 CFB DNY280 DNY	
	VALRE-STAR	
	or	
	(250 kts or less) SLT J190 CFB DNY280	
	DNY NOBBI-STAR	
	or	
	PSB J49 CFB220 CFB DNY280 DNY	
EWD.	NOBBI-STAR	4400 0000
EWR	ROD J29 J584 FQM-STAR	1100-0300
ROD J29 J70 LVZ LENDY-STAR	1100–0300 or	
BKW J42 GVE KORRY-STAR	1100-0300	
PHL	ROD J152 HAR V210 BUNTS	1100-0300
	or	
	BKW J42 GVE DPNT-STAR	1100-0300
PIT	APE CTW V443 WISKE	
	or	
TED (MAIL (ODW (O - t - 11))	HNN JPU V117 WISKE	
TEB/MMU/CDW/Satellites	(Non-Advanced Nav Aircraft only) ROD J29	
	JHW J70 LVZ LVZ-STAR	
Traffic overflying Badger VORTAC, BAE to Washing	gton Dulles IAD:	
BAE	J34 AIR MGW MGW121 VERNI ESL	
	ROYIL-STAR	
	or	
	(GPS or DME/DME–IRU equipped) J34 AIR	
	MGW VERNI ESL SHNON (RNAV)-STAR	
Traffic overflying Gipper VORTAC, GIJ to Washingto	on Dulles IAD:	
GIJ	J146 WOOST J34 AIR MGW MGW121 VERNI	
	ESL ROYIL-STAR	
	or	
	(GPS or DME/DME-IRU equipped) J146	
	WOOST J34 AIR MGW VERNI ESL SHNON	
	(RNAV)-STAR	
Traffic overflying Indianapolis Center area eastbo		to JFK:
ABE	ROD CXR J146	
3DL	ROD J29 JHW J82 WILET RKA SWEDE-STAR.	
BWI DEF	ROD J152 J162 MGW EMI-STAR ROD J29 JHW J82 ALB	
FRG	ROD J29 JHW J82 J522 HNK IGN V58 V91	
	CCC	
HPN	(above 250 kts) ROD J29 JHW J82 WILET	
	DNY VALRE-STAR)	
	or	
	(250 kts or less) ROD J29 JHW J82 WILET	
	DNY NOBBI-STAR	
SP	(above 250 kts) ROD J152 J78 PSB J49 HNK	
	J68 V130 TOMES MAD V34 CREAM V16	
	CCC	
	or	
	(250 kts or less) ROD J152 J78 PSB J49	
TED /MMIL /CDM//LDL	HNK DNY LOVES-STAR	
TEB/MMU/CDW/LDJ	ROD J29 JHW J70 LVZ-STAR	
EC. 23 S	EP 2010 to 18 NOV 2010	

Route

Effective Times

Effective

(UTC)

Traffic overflying Indianapolis Center (ZID) to Chicago O'Hare (ORD)		
ORD	(Non-Advanced Nav Aircraft only) ATL J89 IIU MZZ OXI KNOX-STARor	
	(Non-Advanced Nav Aircraft only) BNA IIU	
	MZZ OXI KNOX-STAR	
	(Non–Advanced Nav Aircraft only) FLM J24 BIGXX MZZ OXI KNOX–STAR or	
	(Non-Advanced Nav Aircraft only) IRQ J99 IIU MZZ OXI KNOX-STARor	
	(Non-Advanced Nav Aircraft only,	
	Washington/Baltimore Metro Area Only: BWI, DCA, IAD) ROD J149 FWA	

Terminals

HIGH ALTITUDE—SINGLE DIRECTION ROUTES

KNOX-STAR....

Airway	Segment Fixes	Direction Effective	(UTC)
J24/110	Indianapolis, IN to St. Louis, MO	West	1100-0300
J30	Joliet, IL to TRIXY Intn, VA	East	1100-0300
J34	Bellaire, OH to TRIXY Intn, VA	East	1100-0300
J149	Armel, VA to Rosewood, OH	West	1100-0300
J162	Bellaire, OH to Martinsburg, WV	East	1100-0300

Q-ROUTES 378

RNAV MEAs will only be published if above FL 180.

Segment

ELMAA-ERAVE

FRAVE-FASON EASON-EBINY

EBINY-ENVIE

ENVIE-ETCHY ETCHY-POINT REYES

BOILE-HEDVI

HEDVI-HOBOL HOBOL-ITUCO

ITUCO-NEWMAN

FOWND-POINT REYES

FEPOT-FAMUK FAMUK-FRFLY

FRFLY-FINER FINER-FOWND

BOILE-HEDVI HEDVI-SCOLE

SCOLE-SPTFR

SPTFR-ZEBOL

7FBOL-SKTTR

HAROB-HISKU

HISKU-HARPR

HARPR-HOMEG HOMEG-HUPTU

HUPTU-STIKM

JINMO-JOGEN

JOGEN-JUNEJ

JUNEJ-JAGWA JAGWA-AVENAL

SUMMA-SMIGE

SMIGE-SUNBE

SUNBE-REBRG

REBRG-DERBB

PAAGE-PAWLI

PAWLI-PITVE

PITVE-PUSHH

All segments

All segments

PLESS-NASHVILLE

CORONA-HONDS

HONDS-UNNOS

UNNOS-FUSCO

GUSTI-OYSTY

OYSTY-ACMES

ACMES-CATLN

FUSCO-JUNCTION

JONEZ-RAZORBACK

PUSHH-LOS ANGELES

SKTTR-EL PASO

Route

Q1

Q2

Q3

04

Q5

Q7

Q9

Q11

013

Q15

Q19

Q20

021

Q22

Q23

O-ROUTES REGULATORY

Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.

O routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note

that this section does not apply to 0 routes in the Gulf of Mexico, Gulf of Mexico 0 routes are explained in the Southeast and South Central A/FD volumes. O routes listed in this A/FD volume have at least part of one of their leg segments within

this volume's area of coverage.

limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

BTG, OLM, HQM, HUH, UBG

LIN. ECA. RBL. ENI. SAC. OAK

LIN. ECA. PYE. RBL. SAC. ENI

EED, BLH, BZA, GBN, TRM, IPL, TFD EED, BLH, BZA, GBN, TRM, IPL, TFD

EED, IPL, BZA, GBN, TFD, PXR, BLH

TFD. GBN. BLH. PXR. TUS. CIE. SSO EWM, TFD, PXR, CIE, SSO, TUS, TCS

BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG

HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR

HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU

DME facilities that have been assessed for RNAV operations are listed below. O routes with no DME facilities listed are

CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT

BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS

OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG

BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT OED, EUG, RBL, LMT, ENI, CVO, FJS

OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS

PXR. BLH. BZA. GBN. TFD. TUS. SSO. CIE. SVC. TCS

SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS

OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH

ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV

LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS

EUG. FMG. SAC. IMB. LKV. OED. DSD. RBL. LMT. CVO. REO

FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ

CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA

IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG

OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED,

EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV,

SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS

RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED,

EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME

CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV

OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ

CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA

ENL, GQO, PXV, BNA, IIU, FAM, BWG, CSX

FST, ACH, INK, CME, SJT, TXO, TCC ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST

BYP, EOS, TUL, TXK, ADM, RZC, OKM

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CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME

AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV

ROR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI

OAK, ECA, PYE, LIN, SAC, ENI, RBL

EPH, MWH

OED, SEA

None; GNSS required

None; GNSS required

CNX, INK, CME, TXO, TCC

SWR

FORT SMITH-RAZORBACK OKM, RZC, EOS, TUL

CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS

AEX. DAS. LCH. MCB. LFT. BTR

WALNUT RIDGE-WLSUN MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH BWG, PXV, ENL, BNA, TTH

OKM, SGF, RZC, EOS, TUL

EIC. LIT. ELD. OKM. TXK

ARG, LIT, FAM, SGF, MEM

SQS, LIT, ELD, MEM, ARG

BWG, MEM, VUZ, BNA, GQO

LIT, ARG, MEM, ELD, SQS

BWG, IIU, PXV, VXV, BNA, GQO

PXV, TTH, BWG, ENL

BWG, PXV, ENL, TTH

SQS, LIT, TXK

MEM. ARG. LIT. JAN. ELD. SOS

MEM, PXV, BNA, BWG, ARG, ENL

GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI

ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK

LIT, JKS, GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG

ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA

GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG

ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH

AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK

AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS

ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL

LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO

BWG, ARG, MEM, MKL, SQS, PXV, BNA, GQO, IIU, VXV

CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX

AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB

EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE

ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK,

GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM

FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN,

JAN. SOS. MEM. ARG. VUZ. BNA. LIT

LIT, SWB, TXK, BYP, EIC, ELD, SQS

DAS, LCH, SWB, IAH, LFK, HUB, AEX

AIR, APE, HNN, CXR, HVQ, EWC, DJB

PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT

HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK

ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK

PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD

PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN

JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN

PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG

AEX, SWB, LCH, JAN, HEZ, MCB

JAN, MCB, SWB, AEX JAN, JYU, MEI, SQS, VUZ

JAN, SQS, MEI, MCB

OBK, GIJ, FWA, GSH, IRK

PIE, ORL, OMN, SRQ, TAY

SWABE-ST PETERSBURG LAL, ORL, OMN, SRQ, PHK, PIE

AIR, HVQ, CXR, EWC

MEI, VUZ, JYU

AEX. LEV. MCB. LCH. ROR. HRV. BTR. GCV. MCB. PCU. SJI. LBY

DME

MEEOW-WALNUT RIDGE ELD. MEM. LIT. FAM. RZC

Route

024

Q25

Q26

027

Q28

Q29

030

Q31

032

Q33

Q34

Q35

Q38

Q40

042

Q104

Segment

ROUGE

IRLIBE_PAYTN

LAKE CHARLES-BATON

BATON ROUGE-IRUBE

WLSUN-POCKET CITY

FORT SMITH-ZALDA

ESTEE-POCKET CITY

SIDAE-POCKET CITY

HARES-MEMPHIS

MEMPHIS_SIDAE

SIDON-VULCAN

DHART-JODOX

JODOX-MARVELL MARVELL-TIIDE

TIIDE-POCKET CITY

EL DORADO-GAGLE GAGLE-CRAMM

CRAMM-NASHVILLE

NASHVILLE-SWAPP

DHART-LITTLE ROCK

LITTLE ROCK-PROWL

TEXARKANA-MATIE

MATIE-MEMPHIS

MEMPHIS-SWAPP

KIMBERLY-NEERO

ROKIT-INCIN

INCIN-LAREY

LAREY-BESOM

DOOMS-WINAP

WINAP-MISLE

ALEXANDRIA-DOOMS

KIRKSVILLE-STRUK

STRUK-DANVILLE

DANVILLE-MUNCIE MUNCIE-HIDON

HIDON-BUBAA

BUBAA-PSYKO PSYKO-BRNAN

BRNAN-MAALS

MAALS-SUZIE

DEFUN-HEVVN

HEVVN-PLYER

PLYER-SWABE

ST PETERSBURG-**CYPRESS**

SUZIE-EAST TEXAS

EAST TEXAS-ELIOT

GRAZN-PYRMD

PYRMD-HAKAT HAKAT-FSTFF

WALNUT RIDGE-DEVAC

MLF. BCE

	NEERO-WINEN	BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC,
	WINEN-CORKR	CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK
	CORKR-DRAKE	TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD
Q36	RAZORBACK-TWITS	RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT
	TWITS-DEPEC	MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU
	DEPEC-NASHVILLE	GQO, BWG, BNA, PXV, IIU
	NASHVILLE-SWAPP	VXV, BWG, BNA, GQO, PXV, IIU

380	Q-ROUTES		
Route	Segment	DME	
Q106	SMELZ-BULZI	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW	
	BULZI-DRABK	AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI	
	DRABK-GADAY	MGM, PZD, OTK, JYU, SZW, CEW, SJI	
Q108	GADAY-HKUNA	CEW, JYU, MGM, SZW, RRS, PZD, MAI, OTK, GEF, MGR, TAY, AMG, CRG	
Q110	THNDR-JAYMC	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI	
l	JAYMC-RVERO	VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP	
	RVERO-KPASA	OMN, PIE, PBI, SRQ, ORL, LAL	
	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG	
	BRUTS-GULFR	OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK	
	GULFR-FEONA	TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM	
Q112	DEFUN-HEVVN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB	
	HEVVN-INPIN	JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG	
Q116	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG	
Í	BRUTS-GULFR	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK	
l	GULFR-CEEYA	MCN, AMG, PZD, OTK, SZW, TAY	
Q118	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG	
-	BRUTS-LENIE	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN	
Q501	VIXIS-GOPHER	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU	
ĺ		DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF	
l	GOPHER-SOBME	FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD	
Q502	KENPA-GOPHER	SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW,	
1		MSP, MNM, ASP, TVC, GEP, RWF, BRD	
	GOPHER-SOBME	FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD	
Q504	NOTAP-CESNA	SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC,	

ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD

SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI

GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB

SAW, GRB, BRD

SSM, TVC, ASP, SAW, GRB

CESNA-HEMDI

OMAGA-RIMBE

RIMBE-CESNA

CESNA-HEMDI

Q505

RNAV Routing Pitch and Catch Points

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by pitch (entry into) and catch (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures.

preferred IFR routing, or other established routing programs.

route between the pitch and catch points, non-restrictive routing is permitted.

areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

only.

routing to their destination.

preferred IFR routes.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the

Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred

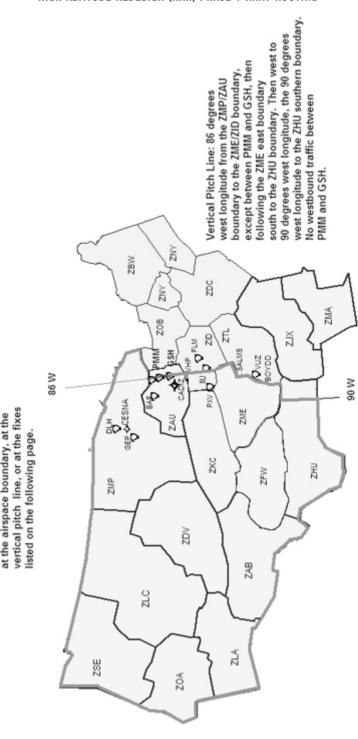
Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: http://sua.faa.gov/sua/Welcome.do. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as

High Altitude Redesign (HAR) Phase One Expansion Airspace

HAR expansion airspace may pitch

Except as noted, flights entering



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HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports

Located Outside HAR Phase I Expansion Airspace Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing

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over any of the following pitch points (listed from north to south): DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on

the associated graphic. HAR Special High Altitude Pitch Points for Airports Located Within (below)

HAR Phase I Expansion Airspace

This section lists pitch points for airports within the HAR Phase I expansion airspace. ABO, GUP, HANOS or ZUN Albuquerque Austin

ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV Boca Raton, FL TBIRD KPASA Q118 LENIE TBIRD KPASA Q116 CEEYA TBIRD KPASA Q110 FEONA

TBIRD SMELZ 0106 BULZI TBIRD SMELZ Q106 GADAY

Burbank includes GMN, MARKS Santa Monica

and Van Nuvs DAG LAS or HEC FED or

PMD BLH Chicago Terminal Area IOW, PLL275065, MZV or BAE Dallas/Fort Worth Terminal Area ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK

ELD, SWB or Aircraft destined the Chicago terminal area Except MDW

EAKER MIDEE BDF BRADFORD-STAR or MLC J105 SGF BDF BRADFORD-STAR Denver Terminal Area

PUB. DVC. DBL, RLG. EKR. LAR. MBW, CYS. BFF, HANKI, NATTI, ASHBY, BELKE.

CABET, WEEDS, OR BINKE

THNDR KPASA Q118 LENIE Fort Lauderdale (or)

Fort Lauderdale Executive THNDR KPASA Q116 CEEYA

THNDR KPASA Q110 FEONA

THNDR SMELZ Q106 GADAY

THNDR SMELZ Q106 BULZI Houston Bush LIT, ELD, MLC, JCT

Aircraft destined Atlanta Terminal Area LCH 024 PAYTN HONIE-RNAV STAR

Aircraft joining J37 to the northeast, GUSTI SID GUSTI Q22 CATLN Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING 384 Houston Hobby LIT, ELD, MLC, JCT, Aircraft joining J42 to the northeast, EL DORADO SID ELD 032 J42 Jacksonville, FL Kansas City Terminal Area TIFTO, CATTS or KENTN Los Angeles, includes GMN, RZS Ontario DAG LAS TRM EED TRM PKE Las Vegas DOBNE, MOSBI, NICLE, TRALR or ZELOT GMN SNS, EHF, LANDO Long Beach includes Orange County TRM PKE TRM EED BNA, HAAWK, SALMS or SQS Memphis Miami Terminal Area WINCO KPASA Q118 LENIE WINCO KPASA Q116 CEEYA or WINCO KPASA Q110 FEONA WINCO SMELZ Q106 GADAY WINCO SMELZ Q106 BULZI Milwaukee **GREAS** Minneapolis Terminal Area* ONL, ABR, FAR, OBH, OVR, FOD New Orleans Terminal Area AEX, MEI, SQS, KAPLN Orlando Terminal Area WEBBS BRUTS Q118 LENIE WEBBS GULFR Q116 CEEYA WEBBS BULZI Q106 GADAY WEBBS FEONA WEBBS BULZI Palm Beach, FL TBIRD KPASA Q118 LENIE TBIRD KPASA Q116 CEEYA TBIRD KPASA Q110 FEONA TBIRD SMELZ Q106 BULZI TBIRD SMELZ Q106 GADAY Palm Springs TRM JOTNU BLD TRM EED TRM PKE Phoenix CHILY, CIE. CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK PDT. TIMEE Portland, OR

TCH J56 CHE ٥r TCH J173 EKR

San Diego

Oakland

San Jose

(RSW/FMY)

Seattle

San Francisco Bay Area

Southwest Florida Airports

Tampa Terminal Area

Atlanta Terminal Area

Saint Louis	VIH, MAP, MYERZ, MCM	
	or	
	HLV MCI	
San Antonio Terminal Area	FUZ, SJT, MQP, ABI	
	or	

Aircraft North of LFK, LFK Aircraft South of HUB, ELA Aircraft South of LFK and North of HUB LCH TRM EED or

TRM PKE or TRM JOTNU BLD GALLI, INSLO, HAROL JSICA GALLI, INSLO, HAROL JSICA GALLI or INSLO

BLUIT JOCKS KPASA Q118 LENIE JOCKS KPASA Q116 CEEYA JOCKS KPASA Q110 FEONA JOCKS SMELZ Q106 GADAY JOCKS SMELZ Q106 BULZI

FEONA, BULZI **BRUTS Q118 LENIE GULFR Q116 CEEYA** BULZI Q106 GADAY *MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing. Catch Points for Airports Located Outside HAR Phase I Expansion Airspace This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace. Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVAC MEM Aircraft through ZME airspace from ZID airspace west of a line from VHP to Aircraft through ZME airspace from ZID airspace east of a line from VHP to BWG, BWG

Aircraft through ZME airspace from ZFW airspace, MEM MEI HONIE (RNAV)-STAR PATYN HONIE (RNAV)-STAR

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING 386 Baltimore-Washington* GIJ. GEP. FLM. IIU. BAE. VHP. WHETT. BNA or VUZ Boston* GEP, CRL, ECK, IIU, BNA or VUZ

Aircraft north of SLC, JOT

Canton-Akron* GIJ. VHP. GEP

Cincinnati Terminal Area BNA. PXV or

GEP, CRL

GEP, CRL

BNA. VUZ

Aircraft over or south of SLC, ENL SLC or SFO departures, ENL, JOT

Cleveland Terminal Area* OBK

Ruffalo*

Charlotte

Detroit Young

Louisville

Newark*

Pontiac Providence

Raleigh-Durham

Teterboro*

White Plains*

Willow Run*

Toronto Terminal Area

Q505, Q504, Q502, Q501

New York Kennedy*

New York LaGuardia*

Hartford Bradley*

Detroit Terminal Area

BAE MKG POLAR-STAR VHP FWA MIZAR-STAR VHP FWA or

LAN SPRTN-STAR Indianapolis Terminal Area BIB, SPI, JOT

ENL, MEM

GEP, VHP, FLM, IIU, BNA, VUZ Philadelphia Terminal Area*

IOW GIJ J554 CRL J584 SLT FQM GEP, VHP, FLM, IIU, BNA, VUZ Pittsburgh Terminal Area*

DBQ J94 PMM J70 LVZ LENDY-STAR VHP, GIJ, BAE, GEP

LFD, LAN, VHP, FWA, GEP FLM, IIU, BNA, VUZ ECK, SVM, SSM, GEP GEP, VHP, CRL, BNA, VUZ

Washington Dulles/National*

GEP. VHP. CRL. FLM. IIU. BNA. VUZ LAN, LFD, VHP, FWA, GEP

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

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GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ

JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ

GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ

*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522

Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area CURLY CURLY-STAR

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

ESPAN FRIHO-STAR LAVAN LAVAN-STAR

FTI FRIHO-STAR or

MIERA MIERA-STAR

Aircraft west of a north-south line at LFK, BLEWE

Austin Terminal Area

Aircraft east of a north-south line at LFK.IDU

CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR

DEFUN Q112 INPIN SHDAY (RNAV)-STAR

SZW INPIN SHDAY (RNAV)-STAR

GEP DLL MSN JVL JANESVILLE-STAR

FOD DBQ JVL JANESVILLE-STAR MCW JANESVILLE-STAR

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GCK IRK BRADFORD-STAR

CVA MOTIF-STAR

PIA MOTIF-STAR

DBO CVA MOTIF-STAR LMN MOTIF-STAR

TVC PULLMAN-STAR

or

or

٥r

٥r

Aircraft through ZHU remain south of ZME and ZTL airspace

Aircraft through ZHU remain south of ZME and ZTL airspace

IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR Aircraft through ZME airspace from north and west of PXV, RZC, 023 FSM Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW

Aircraft through ZME airspace from J52 and south of J52, SQS

Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS

or

Chicago Midway

Boca Raton, FL

Chicago O'Hare Terminal Area

Dallas/Fort Worth Terminal Area

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING 388 Denver Terminal Area OATHE DANDD-STAR HGO QUAIL-STAR LOPEC-STAR or ALS LARKS-STAR HBU POWDR-STAR or EKR TOMSN-STAR CHE TOMSN-STAR or BFF LANDR-STAR or LBF SAYGE-STAR HCT SAYGE-STAR RSK LARKS-STAR LAA QUAIL-STAR GCK J154 RYLIE DANDD-STAR OCS J154 ALPOE RAMMS-STAR YANKI J114 SNY LANDR-STAR Aircraft filed BIL or east, MBW RAMMS-STAR

Ft Lauderdale Executive

Ft Lauderdale or

Houston Bush

Houston Hobby

Jacksonville

CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR Aircraft through ZHU airspace remain south ZME and ZTL airspace Ωr SZW HEVVN Q104 PIE SWAGS (RNAV)-STAR CRP, CVE, LLO, LUKIY, SAT or Aircraft south and east of LLA, JEPEG MISLE Q40 AEX Aircraft north and east of SJI, SJI

Aircraft east of PXV, PXV Q31 DHART SWB Aircraft north and west of PXV. PROWL 033 DHART SWB

CRP, ELLVR, SAT, SWB or

Aircraft south and east of GIRLY, KCEEE Aircraft north and east of SJI, SJI BESOM Q38 ROKIT ROKIT-STAR **GADAY ZOOSS TAY**

airspace or **ZOOSS TAY**

Aircraft east of PXV. PXV 029 HARES SWB Aircraft north and west of PXV, PROWL Q33 DHART SWB Aircraft through ZHU airspace remain south of ZME and Z

	or EMP JHAWK–STAR
Las Vegas	DILCO, LIDAT, IGM
	or Aircraft over PGA or north of PGA KSINO or
	Aircraft south of PGA PGS LYNSY
Los Angeles Terminal Area	Aircraft North of TBC, HEC, PGS or Aircraft South of TBC from ZAB airspace, HIPPI, MESSI
Miami Terminal Area	CEW DEFUN Q104 CYY DEEDS (RNAV)—STAR Aircraft through ZHU airspace remain south ZME and ZTL airspace or SZW HEVVN Q104 CYY DEEDS (RNAV)—STAR
Minneapolis Terminal Area	Aircraft from north, west, south, FAR GOPHER-STAR
	or RWF SKETR-STAR or ALO KASPR-STAR
	or BRD GOPHER-STAR or BAE EAU CLAIRE-STAR
	or FOD TWOLF-STAR
Memphis Terminal Area	ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD
Naples, FL	CEW DEFUN Q104 PLYER PIKKR (RNAV)—STAR Aircraft through ZHU AIRSPACE remain south of ZME and ZTL airspace or
	SZW HEVVN Q104 PLYER PIKKR (RNAV)-STAR
Nashville	CCT, GHM, GUITR, TINGS, VOLLS
New Orleans Terminal Area	BLUEZ, GPT, LCH, MCB, TBD, FATSO
Oakland	ILA or
	KATTS PAMMY
	or Aircraft over or south of a line ILC J16 DVC REANA KATTS PAMMY or Aircraft from north of ILC, JOPER PAMMY
	or KATTS PAMMY
	or Aircraft over or south of ILC, REANA KATTS PAMMY
Orlando Terminal Area	GADAY Q108 CLAWZ LEESE–STAR Aircraft through ZHU airspace remain south of ZME/ZTL airspace or
	OTK LEESE-STAR

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HEC, PGS, BLD

LMN BRAYMER-STAR PWE ROBINSON-STAR

Aircraft south of TBC from ZAB airspace, HIPPI

John Wayne-Orange County

Kansas City Terminal Area

390 HIGH	ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING
Palm Beach, FL	CEW DEFUN Q112 INPIN GULLO (RNAV)—STAR Aircraft through ZHU airspace remain south of ZME and Z airspace or SZW INPIN GULLO (RNAV)—STAR
Phoenix	CORKR DRK or Aircraft from ZDV airspace, GUP or Aircraft from ZAB airspace, ZUN, MOHAK, SSO or VYLLA TUS
Phoenix Satellites	FLG, SSO, MOHAK or VYLLA, TUS
Portland, OR Terminal Area	ARNIT BONVL-STAR or LARNO BONVL-STAR or MOXEE MOXEE-STAR
St. Louis Terminal Area	SGF TRAKE-STAR or

BUM TRAKE-STAR ANX TRAKE-STAR

LMN IRK RIVRS-STAR RBS VANDALIA-STAR Salt Lake City Terminal Area JNC J12 HELPR SPANE-STAR EKR MTU SPANE-STAR BCE DTA-TCH or

MLF DTA-TCH or BVL BONNEVILLE-STAR BYI BEARR-STAR or PIH BEARR-STAR DBS BRIGHAM CITY-STAR

San Diego Terminal Area

Santa Ana

San Antonio Terminal Area

or

JAC BRIGHAM CITY-STAR EED. LAX. GBN

BPI BRIGHAM CITY-STAR OCS BRIGHAM CITY-STAR HEC, PGS, BLD, HIPPI

IDU, CSI, JCT, LLO, CRP, LRD West of a north-south line at LFK, BLEWE

East of a north-south line at LFK, IDU

HIGH ALTITUDE	REDESIGN	(HAR)	PHASE	1	RNAV ROIITING	
IIIUII ALIIIUUL	ILLDESIGN	VIIAIV	IIIASE		INITAL INDUITING	

MVA MODESTO-STAR

San Francisco

San Jose

Seattle Terminal Area

Southwest Florida Airports

Tampa Terminal Area

RSW and FMY

Tucson

ENI GOLDEN GATE-STAR

FMG GOLDEN GATE-STAR

OAL MODESTO-STAR South of a line ILC to DVC.

REANA KATTS OAL MODESTO-STAR

FMG HYP EL NIDO-STAR

OAL HYP EL NIDO-STAR

ENLIGOLDEN GATE-STAR

South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO-STAR

Aircraft from northeast, southeast, south,

TEMPL GLASR-STAR or

SUNED CHINS-STAR BTG OLMYPIA-STAR

CEW DEFUN 0104 SWABE JOSFF-STAR

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace or

SZW HEVVN Q104 SWABE JOSFF-STAR

CEW DEFUN Q104 HEVVN DARBS-STAR

Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

or

SZW DARBS-STAR

DRK PXR or

MOHAK GBN

VFR WAYPOINTS

The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

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WAYDOINT IDENT

VISUAL FLIGHT RULES (VFR) WAYPOINTS VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Chart-

using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints. VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database. BALTIMORE-WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

COLLOCATED VED CHECKBOINT

WAYPUINI IDENI	CULLUCATED VFK CHECKPUINT	LUGATION
VPAXI		N38°34.57′/W076°20.38′
VPONX		N39°06.65′/W076°55.92′
VPOOP		N38°56.32′/W076°36.90′
	BOSTON HELICOPTER O	CHART
VPBAY		N42°16.17′/W070°49.48′
VPBLT		N42°19.67′/W070°53.40′
VPCGS		N42°22.08′/W071°03.13′
VPEVS		N42°23.52′/W071°04.10′
VPFEN		N42°12.58′/W071°08.88′

VPFRF

VPGVI VPHΔM

VPPIK VPOUA **VPQUB**

VPSPF VPTOR VPWAN

BOSTON TERMINAL AREA CHART

COHASSET CUTTYHUNK HARROR

FRAMINGHAM SHOPPING CENTER

VPCOH VPCUT VPFRA **VPHOL** WOODS HOLE

HULL

VPHIII VPLPT NANTUCKET GREAT POINT VPNFD NEEDHAM TOWERS V/DDFA PEABODY SHOPPING CENTER

VPROC ROCKINGHAM RACE TRACK VPSCI SCITUATE NANTUCKET THIRD POINT TUCKERNUCK WAKEFIELD

VPTPT **VPTUC** VPWΔK WANG TOWERS

VPWAN **VPATO** VPAVA

VPGIO

VPK III

VPLMN

VPMAR

VPNPO VPOKY

VPREP

VPRRS

VPUMO

VPWZO VP7IF

CHARLOTTE SECTIONAL CHART

VPRFF VPRRA VPGCF VPGHI

ISLE OF PALMS

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N42°25.03'/W071°12.32' N42°21.88'/W070°52.18' N42°30.13′/W071°07.15′ N42°20.37'/W071°15.93'

N42°12.10′/W071°04.78′ N42°12.60'/W070°59.83' N42°24.20'/W071°09.47' N42°31.42′/W070°59.82′ N42°36.88'/W071°19.45'

N42°13.58'/W070°48.94'

N41°25.50'/W070°55.03' N42°18.16'/W071°23.65' N41°31.06′/W070°40.60′ N42°18.20′/W070°55.30′

N41°18.51'/W070°03.37'

N41°18.31'/W070°15.43'

N42°30.72′/W071°05.24′

N42°36.88'/W071°19.45'

N34°37.37'/W076°31.47'

N34°57.00′/W077°16.50′

N32°16.38'/W080°47.50'

N36°13.75'/W076°08.08'

N36°03.90'/W076°36.42'

N35°15.30'/W075°31.25'

N35°32.50'/W076°37.33'

N35°26.58'/W076°10.22'

N34°55.43'/W077°46.42'

N34°42.20'/W077°03.50'

N32°47.78′/W079°46.45′

N35°06.53'/W075°59.17'

N32°33.98'/W080°21.82'

N33°25.45'/W079°07.60'

N35°35.63'/W075°28.08' N36°00.87'/W075°40.07'

N32°01.62'/W080°53.42'

N42°11.89'/W070°43.69'

N41°23.41'/W070°02.78' N42°18.51'/W071°14.64' N42°32.52'/W070°56.69' N42°46.29'/W071°13.57'

DENVER TERMINAL AREA CHART/FLYWAY CHART

	DENVER TERMINAL AREA CHAR	I/FLIWAI GNAKI
VPBEN		N39°44.28′/W104°26.00′
VPFTG		N39°44.35′/W104°32.75′
VPNIC	NORTH INTERCHANGE	N39°58.90′/W104°59.27′
	HOUSTON TERMINAL AREA CHAR	T/FLYWAY CHART
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPBWY	OCCOMICS THE ONE ONLY	N29°46.25′/W095°09.24′
VPDTN		N29°46.59′/W095°22.01′
VPGLA		N30°08.32′/W095°06.62′
VPGLB		N30°07.80′/W094°55.70′
VPKTY		N29°47.05′/W095°44.92′
VPPLN		N30°08.80′/W095°50.42′
VPRSN		N29°30.00′/W095°41.00′
VPSND		N29°23.13′/W095°28.86′
VPSNT		N29°49.29′/W094°53.94′
VPTNE		N29°47.48′/W095°03.34′
VPTNW		N29°47.06′/W095°33.81′
VPTRK		N29°24.06′/W095°10.44′
	JACKSONVILLE SECTION	
	JACKSUNVILLE SECTION	
VPAFI		N31°49.35′/W081°51.07′
VPAFY		N30°07.00′/W081°21.33′
VPBEC		N29°46.25′/W081°15.10′
VPCJA		N29°30.00′/W081°06.00′
VPCKY		N28°46.50′/W082°34.00′
VPCNY		N28°30.00′/W080°45.00′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDAR		N31°22.38′/W081°24.13′
VPDFI		N29°00.17′/W081°20.85′
VPDUT	OLEADWATED DEAGLE	N27°37.70′/W082°09.10′
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′
VPEGV		N29°39.97′/W081°24.87′
VPFFU	OT BETE BEAGU	N28°57.08′/W081°00.33′
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′
VPHAA		N30°04.02′/W083°40.02′
VPHUC	MIDWAY	N28°19.87′/W082°43.77′
VPIWA	MIDWAY	N31°48.33′/W081°25.85′
VPJMY	LAKE DARKER	N29°26.92′/W081°18.27′
VPKER VPLEV	LAKE PARKER	N28°04.00′/W081°56.00′
		N28°48.00′/W080°52.00′
VPLJA		N29°00.00′/W080°51.00′
VPMAI		N30°50.02′/W084°56.63′
VPTLH VPXZY		N30°32.70′/W083°52.22′ N29°35.00′/W083°10.00′
VPYIW		N30°42.28′/W081°27.25′
VPZIE		N30°42.26 / W061 27.25 N32°01.62′/W080°53.42′
VI 212	KANSAS CITY SECTIONA	,
	KANSAS GIIT SEGIIUNA	
VPAGO		N37°50.33′/W090°29.03′
VPBEK		N37°15.07′/W092°30.67′
VPDEN		N37°46.75′/W092°19.20′
VPENE		N37°44.75′/W091°55.78′
VPESS		N36°59.48′/W091°00.88′
VPFME		N37°41.00′/W092°38.33′
VPGXY		N37°15.50′/W091°40.17′
VPMBE		N37°11.08′/W090°27.92′
VPMKE		N37°24.47′/W092°40.00′
VPROV		N38°01.72′/W091°12.81′
VPUTT		N37°52.05′/W092°01.20′

VFR WAYPOINTS 394 WAYPOINT IDENT COLLOCATED VER CHECKPOINT LOCATION VPWOC N37°18.03′/W092°18.63 **VPWRO** N37°39.12'/W091°45.68 **VPXIZ** N37°26.60′/W092°05.42 KANSAS CITY TERMINAL AREA CHART **VPATN** N39°33.62′/W095°07.65 **VPBGS** BLUE SPRINGS N39°01.82′/W094°16.32 VPBSP BONNER SPRINGS N39°03.78'/W094°53.10 **VPCHB** CHOUTEAU BRIDGE N39°08.77'/W094°32.03 VPDSO DF SOTO N38°58.68'/W094°58.48 VPESG EXCELSIOR SPRINGS N39°20.68'/W094°13.77 **VPGTB** N39°40.92'/W094°41.45 GARRETSBURG **VPLAT** LATHROP WATER TANK N39°32.87′/W094°20.00 VPLEN N38°57.77′/W094°43.68 LONGVIEW LAKE N38°54.63′/W094°28.28 VPI VI VPMCL MC LOUTH N39°11.65′/W095°12.50 VΡΝΗΔ N39°17.83′/W094°34.80 NASHIIA **VPSCX** SPORTS COMPLEX N39°03.00′/W094°29.02 **VPSKR** SUGAR CREEK REFINERY N39°07.00′/W094°27.02 VPSPK SWOPE PARK N39°00.47'/W094°31.93 VPTSK TWIN STACKS N39°09.05'/W094°38.22 WORLDS OF FUN N39°10.42′/W094°29.12 KLAMATH FALLS SECTIONAL CHART N43°57.38'/W123°02.22 **VPORO** LOS ANGELES HELICOPTER CHART **VPANA** N33°44.43'/W117°50.03 VPART MAGNOLIA N33°51.45′/W117°58.92 VPAUT HWY 91 & 55 N33°50.63'/W117°49.57 **VPROR** N33°59.60'/W117°21.45 **VPCAR** N33°49.90'/W118°17.23 N34°12.54′/W118°59.61 **VPCNG** CONEJO GRADE US HWY 101 **VPCOR** N33°52.90′/W117°32.95 N34°01.40′/W117°44.88 **VPCSU** CSU CHANNEL ISLANDS N34°09.76′/W119°02.53 VPDOW N33°56.47′/W118°05.80 **VPELA** N34°00.98'/W118°10.35 **VPETY** N33°38.70′/W117°44.12 **VPFCB** N34°02.03'/W118°01.63 OXNARD FINANCIAL PLAZA VPFPL N34°13.71′/W119°10.39 **VPGOL** N34°09.33'/W118°17.37 VPIMP N33°55.85'/W118°16.85

VPKAT N33°48.23'/W117°54.22 VPKFI N34°03.92′/W117°48.40 **VPLAC** N34°03.75'/W118°14.93 N34°03.85'/W117°17.82 **VPLQM** OUEEN MARY N33°45.17'/W118°11.37

SANTA ANITA RACE TRACK

VINCENT THOMAS BRIDGE

VPRRT VPSEP VPSTC SATICOY BRIDGE VPSTK

NEWHALL PASS

VPLRT

VPLVT

VPMDR

VPNEW

VPNUY

VPPCH

VPPKC

VPPOR

N34°08.45'/W118°02.65 N33°44.97'/W118°16.32

N33°59.27'/W118°23.97

N34°20.18'/W118°30.72

N34°09.63'/W118°28.18

N33°28.07'/W117°40.32

N34°03.32′/W118°12.83

N34°00.10′/W117°50.12

N33°59.37'/W118°16.83

N34°05.80'/W118°28.63 N34°17.45′/W118°28.07

N34°16.62′/W119°08.34

N34°13.97'/W118°24.60

LOS ANGELES SECTIONAL CHART

	LOS ANGLLES SECTIONAL O	IIIAN I
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71′/W119°10.39′
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′
	LOS ANGELES TERMINAL AREA CHART	/FLYWAY CHART
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′
VPGTY	GETTY CENTER	N34°04.84′/W118°28.66′
VPLBP		N33°56.05′/W116°59.63′
VPLCC	BANNING PASS	N34°08.87′/W117°34.33′
VPLCP	CHAFFEY COLLEGE	N34°18.07′/W117°27.68′
VPLDL	CAJON PASS	N33°48.72′/W117°55.13′
VPLDP	DISNEYLAND	N33°27.62′/W117°42.87′
VPLDS	DANA POINT	N34°04.42′/W118°14.42′
VPLFX	DODGER STADIUM	N33°52.38′/W118°06.08′
VPLGP	91/605 INTERCHANGE	N34°07.10′/W118°18.02′
VPLHF	GRIFFITH PARK OBSERVATORY	N33°51.42′/W118°17.10′
VPLHP	110/405 FWYS	N33°39.32′/W118°00.25′
VPLKH	HUNTINGTON PIER	N33°50.75′/W118°23.88′
VPLLC	KING HARBOR	N34°00.83′/W118°17.27′
VPLLM	L.A. COLISEUM	N33°50.58′/W117°26.85′
VPLMM	LAKE MATHEWS	N34°26.20′/W118°36.28′
VPLMS	MAGIC MOUNTAIN	N33°43.40′/W117°56.77′
VPLPD	MILE SQUARE PARK	N33°53.40′/W117°38.48′
VPLPP	PRADO DAM	N34°02.13′/W118°32.15′
VPLQM	PACIFIC PALISADES	N33°45.17′/W118°11.37′
VPLRB	QUEEN MARY	N34°09.67′/W118°11.37
VPLRT	ROSE BOWL	N34°08.45′/W118°02.65′
VPLSA	SANTA ANITA RACE TRACK	N33°52.03′/W117°42.68′
VPLSB	SANTA ANA CANYON	N34°07.72′/W117°57.30′
VPLSC	SANTA FE FLOOD BASIN	N33°52.97′/W117°53.13′
VPLSF	STATE COLLEGE	
VPLSP	SAN FERNANDO RESERVOIR	N34°17.87'/W118°29.00' N33°36.33'/W117°48.63'
VPLSR	SIGNAL PEAK	N33°53.07′/W118°21.13′
VPLSK	HAWTHORNE & 405 FREEWAY	N34°16.00′/W118°21.13
VPLTW	SANTA SUSANA PASS	· ·
VPLVT	TUJUNGA WASH & FOOTHILL	N34°16.40′/W118°20.30′ N33°44.97′/W118°16.32′
VPLWT	VINCENT THOMAS BRIDGE	
VPLWT	WATER TANK	N34°10.82′/W118°46.27′
VPSTC	NEWHALL PASS	N34°20.18′/W118°30.72′
VPSIC	SATICOY BRIDGE	N34°16.62′/W119°08.34′
	MIAMI SECTIONAL CHAI	RT
VPACH	HOLLYWOOD BEACH	N26°00.92'/W080°06.93'
VPBOV		N27°57.00′/W080°46.75′
VPCLE		N26°27.07′/W082°00.88′
VPCTE		N26°09.28'/W081°20.70'
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDUT		N27°37.70′/W082°09.10′
VPDZE		N27°19.00′/W080°44.17′
VPEAR	CLEARWATER BEACH	N27°58.67'/W082°49.83'
VPEDY	ANDYTOWN TOLLGATE	N26°08.78'/W080°28.00'
VPFAH		N26°25.40′/W081°29.67′
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′
VPHRO	OTTETE BENOTI	N27°05.97′/W082°12.20′
VPHUC		N28°19.87'/W082°43.77'
VPIBR		N27°12.47′/W081°40.22′
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′
VPKOE	LANE I ANNEN	N24°40.08′/W081°20.55′
VPLYY		N24°49.07′/W080°49.17′
VPMBO	GULFSTREAM PARK	N25°58.57′/W080°08.17′
VPOBA	PUMPING STATION	N26°28.30′/W080°26.75′
VPRBI	FUNIFING STATION	N25°50.67′/W080°55.18′
VPRNL	RANGER STATION	N25°22.92′/W080°36.58′
VPWMO	NAMEL STATION	N27°03.00′/W080°35.00′
		,

MIAMI TERMINAL AREA CHART/FLYWAY CHART WAYPOINT IDENT COLLOCATED VFR CHECKPOINT VPACH

HOLLYWOOD BEACH

GIII ESTREAM PARK

PUMPING STATION

RANGER STATION

PHILLIPS INLET

ANDYTOWN TOLLGATE

VFR WAYPOINTS

NEW ORLEANS SECTIONAL CHART

NEW YORK HELICOPTER CHART

LOCATION

N26°00.92'/W080°06.93

N26°08.78'/W080°28.00

N25°58.57′W080°08.17′

N26°28.30'/W080°26.75

N25°50.67'/W080°55.18

N25°22.92'/W080°36.58

N30°25.95'/W089°05.62

N30°16.23'/W085°59.25

N30°50.02'/W084°56.63

N30°23.00′/W088°31.72

N30°18.95′/W089°35.88

N30°13.87'/W085°20.67

N30°54.85'/W087°57.82

N30°49.65'/W089°07.42

N30°19.93'/W087°08.50

N40°59.00′/W073°07.00

N40°57.37'/W073°29.59

N33°23.50′/W111°41.37

N33°09.23'/W111°40.92

N32°56.25'/W111°59.67

N33°20.18'/W111°26.53

N38°32.08′/W090°22.42

N38°23.80′/W090°20.38

N38°55.00′/W089°56.00

N39°00.28'/W090°41.23

N38°29.18'/W090°16.47

N38°37.43′/W090°11.55

N38°45.30′/W090°34.87

N38°35.80′/W090°19.32

N38°47.17'/W090°39.25

396

VPEDY

VPMBO

VPORA.

VPRBI

VPRNL

VPGPT

VPLIP

VPMAI **VPMOB**

VPRAM

VPRER

VPRIV

VPSAW

VPTHR

VPIAY

VPLYD

VPSSS

VPSTN

VPSTT

VPZZZ

VPAGN

VPBPE

VPCJY

VPCOJ

VPDFA

VPFA7

VPEDZ

VPEGR

VPROK		N40°52.70′/W073°44.24
	PHOENIX TERMINAL AREA CHART/F	LYWAY CHART
VPALL	ALLENVILLE	N33°20.97′/W112°35.20
VPAQU	AQUEDUCT PUMPING STATION	N33°40.05′/W112°41.38
VPARM	ARROWHEAD MALL	N33°38.52′/W112°13.48
VPAWG	AHWATUKEE GOLF COURSE	N33°19.98′/W111°59.08
VPAZM	ARIZONA MILLS	N33°23.43′/W111°57.88
VPBAR	BARTLETT DAM	N33°49.10′/W111°37.92
VPCCC	COUNTRY CLUB & CANAL	N33°30.73′/W111°50.37
VPCNL	CANAL	N33°33.23′/W111°46.89
VPFRB	FIREBIRD LAKE	N33°16.35′/W111°58.10
VPFTN	FOUNTAIN HILLS	N33°36.12′/W111°42.72
VPGLX	GILA CROSSING	N33°16.55′/W112°10.08
VPGPP	GLENDALE POWER PLANT	N33°33.27′/W112°13.00
VPMAR	MARICOPA	N33°03.42′/W112°02.88
VPMHS	MESQUITE HIGH SCHOOL	N33°20.53′/W111°49.58
VPNRV	NEW RIVER	N33°55.08′/W112°08.45
VPNTT	NORTH TEST TRACK	N33°03.50′/W111°55.83
VPPIR	PIR	N33°22.52′/W112°18.90
VPQTR	QUINTERO GOLF COURSE	N33°49.53′/W112°23.58
VPRVC	RIO VERDE COMMUNITY	N33°44.37′/W111°39.62
VPSMC	SOUTH MOUNTAIN COLLEGE	N33°23.02′/W112°02.12
VPSQP	SQUAW PEAK	N33°32.83′/W112°01.27
1		

SUPERSTITION SPRINGS MALL

JEFFERSON BARRACKS BRIDGE

EC. 23 SEP 2010 to 18 NOV 2010

ST LOUIS TERMINAL AREA CHART/FLYWAY CHART

SANTAN MOUNTAINS

SOUTH TEST TRACK

TV ANTENNA

HOLIDAY SHORES

BUSCH STADIUM

WINFIELD DAM

WATER TANKS

GAS TANKS

ST PETERS

VFR WAYPOINTS WAYPOINT IDENT LOCATION COLLOCATED VER CHECKPOINT VPFAI N38°40.00'/W090°43.00' HOWELL ISLAND N38°55.37′/W090°17.30′ VPFFY VPGPF N38°35.60′/W090°26.92′ **VPGVI** N38°32.30′/W090°27.80′ N38°45.88'/W090°10.42' **VPHRO** CHAIN OF ROCKS BRIDGE **VPIBO** N38°20.00'/W090°09.00' WATERI OO

> N38°48.83'/W090°50.98' WENT7VII I F N39°07.00'/W090°20.00' JERSEYVILLE. N38°38.00′/W090°17.00′ FOREST PARK N38°27.00′/W090°12.00′ COLLIMBIA N38°27.50′/W090°05.68′

V/D IMII

VPKNY

VPI FS

VPI IW

VPI XII

VPNSY

VPNIZV

VPRA7

VPRMO

VPWKO

VPXXI

VPYID

VPAIR

VPBEE

VPBRN

VPCAP

VPCHS

VPCOP

VPCWY

VPCYN

VPFPC

VPFPK

VPGFS

VPHVE

VPKSI

VPI GN

VPMDH

VPMMT

VPMSH VPNSI

VPNTP

VPOGE

VPOPS

VPPEN

VPPPT

VPPV0

VPRWY

VPSI C

VPTIP

VPWBR

VPWBT

VPAIR

VPBRN

VPCAP

VPCHS

VPCOP

VPCVI

VPCWY

VPCYN

VPFPC

VPFPK

VPGFS

MILLSTADT

MOSENTHEIN ISLAND SALTAIR SOUTH INTERCHANGE BARN

STATE CAPITOL

PARLEYS CANYON

FREE PORT CENTER

FRANCIS PEAK

KSI ANTENNA

GARFIELD STACK

SPAGHETTI BOWL

JORDAN RIVER TEMPLE

MCKAY DEE HOSPITAL

MICROWAVE TOWERS

GRAIN FI EVATOR

POWER STATION

PROMONTORY POINT

POINT OF THE MOUNTAIN

I-15/I-80 INTERCHANGE

SOUTH INTERCHANGE

BINGHAM COPPER MINE

CENTERVILLE INTERCHANGE

STATE PRISON

PROVO CANYON

WEBER CANYON

SOUTH TIP

CAUSEWAY

PARLEYS CANYON

FRANCIS PEAK

GARFIELD STACK

FREE PORT CENTER

LAGOON AMUSEMENT PARK

CALISEWAY

HORSESHOE LAKE

PACIFIC

ST CHARLES

GATEWAY ARCH

WOOD RIVER REFINERIES

SIX FLAGS

SALT LAKE CITY HELICOPTER CHART BINGHAM COPPER MINE

N40°44.85'/W112°11.22' N40°38.18'/W111°54.23' N40°54.28'/W112°10.15' N40°46.67'/W111°53.25' N40°42.28'/W112°05.92' N40°31.38'/W112°09.00'

N38°41.00′/W090°05.00′

N38°29.00'/W090°44.00'

N38°47.00′/W090°30.00′

N38°30.67'/W090°40.47'

N38°37.50′/W090°11.00′

N38°50.00'/W090°05.00'

N38°43.00′/W090°12.25′

N41°05.37'/W112°07.17'

N40°42.67'/W111°48.10'

N41°05.92'/W112°02.27'

N41°01.98'/W111°50.30'

N40°43.28'/W112°11.88'

N40°43.50'/W111°54.22'

N40°35.02'/W111°55.58'

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N40°46.80'/W112°05.80' N40°59.08'/W111°53.57' N41°11.50'/W111°57.08' N40°48.50'/W111°53.37' N41°01.67'/W112°02.47'

N40°50.15'/W111°54.90' N41°03.57'/W112°14.23' N41°13.13'/W112°00.45' N41°20.38'/W112°02.78' N40°29.88'/W111°53.62' N41°12.28'/W112°25.73' N40°27.42′/W111°54.83′ N40°18.77'/W111°39.45'

N40°48.48'/W112°00.33' N40°45.83'/W111°54.85' N40°50.93'/W112°10.92'

N41°08.17'/W111°54.83' N40°38.00′/W112°03.33′

N40°44.85'/W112°11.22' N40°38.18'/W111°54.23'

N40°31.38'/W112°09.00'

N40°55.30'/W111°53.43'

N41°05.37'/W112°07.17'

N40°42.67'/W111°48.10'

N41°05.92'/W112°02.27'

N41°01.98'/W111°50.30'

N40°43.28'/W112°11.88'

N40°54.28'/W112°10.15' BARN N40°46.67'/W111°53.25' STATE CAPITOL N40°42.28'/W112°05.92'

EC. 23 SEP 2010 to 18 NOV 2010

SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

VFR WAYPOINTS WAYPOINT IDENT COLLOCATED VER CHECKPOINT V/PHV/F SPAGHETTI BOWL VPIRT

KSL ANTENNA

JORDAN RIVER TEMPLE

MCKAY DEE HOSPITAL

MICROWAVE TOWERS

GRAIN ELEVATOR

POWER STATION

STATE PRISON

LAGOON AMUSEMENT PARK

VPMDH VPMMT V/DM/SH VPNSI

398

VPKSI

VPLGN

VPNTP

VPOGE

VPOPS

VPPEN

V/DDDT

VPPTM

VPPV0

VPRWY

VPSCF

VPSCM

VPSFR

VPSI I

VPSMB

VPSMP VPSMS

VPSMV

VPSMW

VPSOP

VPSOT

VPSPL

VPSQS

VPSRT

VPSSM

VPSSV

VPSTP

VPKRG

VPAI T

VPANT

VPBBR

VPCAL

VPCRT

VPCOY

VPCQZ

VPCRL

VPCRY

PROMONTORY POINT POINT OF THE MOUNTAIN PROVO CANYON

SIGNAL PEAK

BARONA CASINO VPSRI VPSRM BLACK MOUNTAIN

VPWRT VPZ00 VPI DP VPLSP **VPSBC**

V/PTIP VPHOH VPWRR

DANA POINT

I-15/I-80 INTERCHANGE SOUTH TIP WEBER CANYON HOGLE ZOO

COWLES MOUNTAIN

CRYSTAL PIER

IRON MOUNTAIN

LAKE JENNINGS

MOUNT SOLEDAD

MOUNT WOODSON

OTAY MESA PRISON

LOWER OTAY LAKE

POWER PLANT

SOUTH POINT LOMA

OUALCOMM STADIUM

DEL MAR RACE TRACK

SAN VICENTE ISLAND

KINGSBURY GRADE

ALTAMONT PASS

ANTIOCH BRIDGE

RENICIA BRIDGE

LAKE CHAROT

COYOTE HILLS

CAROUINEZ BRIDGE

CALAVERAS RESERVOIR

CRYSTAL SPRINGS CAUSEWAY

EC. 23 SEP 2010 to 18 NOV 2010

SAN MIGUEL MOUNTAIN

TORREY PINES GOLF COURSE

SAN FRANCISCO SECTIONAL CHART

U OF U EVENTS CENTER SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

N40°45.73'/W111°50.28 N41°08.17'/W111°54.83 N40°38.00′/W112°03.33 N40°45.00′/W111°48.95 N33°27.62'/W117°42.87 N33°36.33'/W117°48.63 N33°14.15'/W117°26.63

LOCATION

N40°43.50′/W111°54.22

N40°35.02′/W111°55.58

N40°46.80′/W112°05.80

N40°59.08'/W111°53.57

N41°11.50′/W111°57.08

N40°48.50′/W111°53.37

N41°01.67'/W112°02.47 N40°50.15'/W111°54.90

N41°03.57'/W112°14.23

N41°13.13'/W112°00.45

N41°20.38'/W112°02.78

N40°29.88'/W111°53.62

N41°12.28'/W112°25.73

N40°27.42′/W111°54.83

N40°18.77'/W111°39.45

N40°48.48'/W112°00.33 N40°45.83′/W111°54.85

N40°50.93'/W112°10.92

N32°56.25'/W116°52.60 N33°05.18'/W117°18.55

N32°58.87'/W117°07.00

N32°48.55'/W117°09.17

N32°48.72'/W117°01.97

N32°47.77'/W117°15.42

N32°39.37'/W117°07.30 N32°58.25'/W116°57.33 N32°51.53'/W116°53.28 N32°45.57'/W117°12.22 N33°22.70′/W117°36.75 N32°50.40′/W117°15.10 N32°45.75'/W117°09.80 N33°00.52'/W116°58.23 N32°35.82'/W116°55.28 N32°37.73′/W116°55.38

N32°39.90′/W117°14.55 N33°08.25'/W117°20.23 N32°46.98'/W117°07.23 N32°58.58'/W117°15.95

N32°41.78'/W116°56.18 N32°55.53'/W116°55.00 N32°54.17'/W117°14.68 N33°11.48'/W117°16.38

N38°58.75'/W119°53.20

SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART N37°44.35'/W121°35.42 N38°01.45'/W121°45.02 N38°02.50'/W122°07.45

N37°11.00′/W121°41.06

N37°30.56′/W122°21.10

VFR WAYPOINTS WAYPOINT IDENT LOCATION COLLOCATED VER CHECKPOINT VPCSH N37°39.52'/W122°03.52' CAL STATE UNIVERSITY VPDAM N37°36.91'/W121°44.78' DEL VALLE DAM **VPDLR** N37°07.00′/W121°47.06′ **VPDUB** N37°42.06'/W121°55.36' DUBLIN **VPEMB** N37°26.05'/W121°53.83' EMBASSY SUITES **VPGGF** N37°53.07'/W122°18.71' **GOLDEN GATE FIELDS** V/PGII N37°01.37'/W121°33.99' GILROY **VPHHH** N38°03.58'/W122°30.66' HAMII TON VPKGO N37°31.58'/W122°06.10' **VPLEX** N37°11.66′/W121°59.18′ LEXINGTON RESERVOIR VPMID N37°36.28'/W122°11.81' MID-SPAN SAN MATEO BRIDGE **VPMOR** N37°48.46'/W122°11.95' MORMON TEMPLE VPNUM N37°29.56'/W121°56.58' NIIMMI PLANT **VPPAC** N37°38.00′/W122°32.07′ VPPRII N37°17.33'/W121°56.01' **PRUNEYARD VPSAR** N37°15.26'/W122°02.33' SARATOGA VPSI A N37°24.75'/W122°14.35' SLAC/LINEAR ACCELERATOR **VPSTB** N37°54.45'/W122°40.41' STINSON BEACH VPSUN N37°34.85'/W121°53.23' SUNOL GOLF COURSE N37°13.93'/W121°41.35' VPLITC UTC **VPWAL** N37°53.78'/W122°04.30' WALNUT CREEK VPWAM N37°30.28'/W122°10.00' VPWFR N37°30.88'/W122°12.26' CEMENT PLANT TAMPA/ORLANDO TERMINAL AREA CHART/FLYWAY CHART VPBOV N27°57.00′/W080°46.75′ **VPCNY** N28°30.00'/W080°45.00' **VPDAD** N28°22.57'/W082°11.25' DADE CITY VPDFI N29°00.17'/W081°20.85' VPDUT N27°37.70'/W082°09.10' **VPEAR** N27°58.67'/W082°49.83' CLEARWATER BEACH VPFFU N28°57.08'/W081°00.33' VPGPF N27°43.50'/W082°44.67' ST PETE BEACH **VPHUC** N28°19.87'/W082°43.77' VPKFR N28°04.00'/W081°56.00' LAKE PARKER VPI FV N28°48.00'/W080°52.00' N29°00.00'/W080°51.00' **VPLJA** WASHINGTON SECTIONAL CHART VPACE N38°07.82'/W076°48.75' VPAXI N38°34.57'/W076°20.38' **VPBRA** N36°13.75'/W076°08.08' VPGCE N36°03.90'/W076°36.42' **VPWZO** N36°00.87'/W075°40.07'

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VOR RECEIVER CHECK

VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual, Basic Flight Informatio and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborn followed by figures (2300) or (1000–3000) indicating the altitudes above mean sea level at which the check shoul be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

ILLINOIS

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Centralia (Centralia Muni)	115.0/ENL	A/2000	027	6.1	Over apch end Rwy 36.
Champaign (Urbana)	110.0/CMI	A/2000	177	7.8	Over grain elevator at Pesotum.
Champaign (University of Illinois-Willard)	110.0/CMI	G	332	0.9	On runup pad Rwy 14L.
Decatur (Decatur)	117.2/DEC	A/1700	348	5.4	Over apch end Rwy 36.
Galesburg	109.8/GBG	A/3000	237	12	Over railroad bridge.
Joliet (Aurora Muni)	112.3/JOT	A/2500	331	15	Over intersection of rwys.
Joliet (Joliet Rgnl)	112.3/JOT	A/1500	102	6.5	Over centerline of NW end of Rwy 04–22.
Lawrenceville (Lawrenceville-Vincennes					,
Intl)	108.8/LWV	G	177	.6	South side of Echo.
Marion (Williamson Co Rgnl)	110.4/MWA	A/1500	287	11	Railroad intersection in town of De Soto.
	110.4/MWA	G	139	.5	On parallel twy to Rwy 29.
Mattoon/Charleston (Coles Co Memorial)	109.4/MTO	G	066	.7	Runup pad Rwy 24. VOR checkpoint unusable.
Moline (Quad City Intl)	114.4/MZV	A/2000	034	9.8	Over intersection of Rwys 05–23, 09–27, 13–31.
Mount Vernon (Mount Vernon)	113.8/VNN	G	223	3.2	At intersection of taxiways B and B2.
Peoria (Greater Peoria Rgnl)	115.2/PIA	A/2000	100	4.9	Over intersection Rwys 13–31 and 4–22.
Quincy (Quincy Rgnl–Baldwin Fld)	113.6/UIN	G	029	6.6	On W side of terminal
Roberts	116.8/RBS	A/2000	151	7.8	ramp. Over grain elevator in
Rockford (Chicago/Rockford Intl)	110.8/RFD	G	108	5.1	Paxton, IL. Over intersection of twys
Samsville (Mount Carmel Muni)	116.6/SAM	A/1500	063	18.4	A/B/D. Over intersection of Rwys
Troy (St Louis Rgnl)	116.0/TOY	A/1600	322	11	04–22 and 13–31. Over intersection of N/S
Vandalia (Vandalia Muni)	114.3/VLA	A/1700	177	5.8	and NW/SE rwys. Over centerline at N end N/S rwy.

VOR TEST FACILITIES (VOT)

Facility Name		Type VOT	
(Airport Name)	Freq.	Facility	Remarks
Chicago (Midway)	111.0	G	
Chicago (O'Hare)	112 0	G	

G

G

A/2500

G

A/2000

A/2000

Type VOT

Facility

G

G

Check

Ρt

Gnd

AB/ALT

G

G

G

A/2000

A/2500

G

A/2500

A/2300

G

G

A/2000

A/2000

A/2000

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VOR TEST FACILITIES (VOT)

MICHIGAN VOR RECEIVER CHECKPOINTS Dist

from Fac N.M.

12

Q

6

.6

5.8

0.7

13

7

Dist

from

Fac

N.M.

1.1

.9

1.0

11.3

14.5

10

13.5

.7

5.4

17.5

8.4

22.5

.6

242

206

181

328

056

300

Azimuth

from

Fac

Mag

203

249

063

096

002

077

231

077

167

058

328

272

166

Checkpoint Description

Over water twr in town of Fowler. On runup pad Rwy 17.

Over water tower S edge Jasper.

On taxiway A at AER 05.

On taxiway A-4 on runup area for Rwv 14.

Over intersection of E/W and NE/SW rwys.

Over intersection of E/W and N/S rwvs.

Remarks

Checkpoint Description

On runup for Rwy 01.

Approach end Rwy 6.

NS and EW highway intersection

SE corner of ramp.

Over smoke stack.

On twy to Rwy 35.

Over intersection of NS/EW expressway.

Over intersection of NW/SE and NE/SW rwys.

Over apch end Rwy 04.

S of Perkins.

Approach end Rwy 24.

Over microwave twr 1 NM

Over intersection of N/S

On Twy C; 500 E of apch end Rwy 06.

highway & E/W road 1 NM W of Wayland.

Runup Pad Rwy 04

Over intersection of highway and railroad.

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VOR RECEIVER CHECKPOINTS Type

VOR RECEIVER CHECK

INDIANA

		Gna.	rac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	
Boiler (Purdue Univ)	115.1/BVT	A/1800	286	
Hoosier (Monroe County)	110.2/00M 109.2/HNB	G A/2500	349 010	

113.5/OKK

108.6/MZZ

114.4/MIE

114.4/MIE

113.3/PXV

115.3/TTH

Frea.

Freq/Ident

108.8/APN

116.1/ASP

116.1/ASP

109.4/BTL

110.8/ESC

109.2/GLR

115.95/GRR

112.8/CMX

109.0/AZO

110.8/LAN

111.2/LFD

115.2/MKG

114.0/ECK

1096

Kokomo (Kokomo Muni).....

Marion (Marion Muni)

Muncie (Delaware Co-Johnson Fld)

Pocket City (Evansville Rgnl).....

Terre Haute (Sky King)

Fort Wavne Intl

Indianapolis Intl.

Alpena (Alpena Co Rgnl)

Au Sable (Oscoda-Wurtsmith)

Battle Creek (W.K. Kellogg).....

Escanaba

Gaylord (Gaylord Rgnl)

Grand Rapids (Gerald R Ford Intl).....

Houghton (Houghton Co Meml).....

Kalamazoo (Kalamazoo/Battle Creek Intl) ..

Lansing (Capital Region Intl)

Litchfield

Muskegon (Muskegon County).....

Peck (St Clair County Intl)

Facility Name

(Airport Name)

Facility Name (Arpt Name)

Pt. from

Azimuth

Check

Springfield (Springfield-Beckley Muni)...... 113.2/SGH

Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Pellston (Cheboygan City-County)	111.8/PLN 111.8/PLN	A/2000 G	084 241	6.4 6.4	Over center of E/W rwy. At intersection of N/S and E/W twys.
Pontiac (Oakland Co Intl)	111.0/PSI	G	113	5.8	On circle on warmup pad apch end Rwy 27L.
	111.0/PSI	G	120	5.0	On circle on warmup pad apch end Rwy 09R.
Saginaw	112.9/MBS	A/1700	058	6.7	Over intersection US 10 and I-75.
V	OR TEST FA	ACILITIES	(VOT)		
Facility Name		Type VOT			
(Airport Name)	Freq.	Facility			Remarks
Detroit City	L11.6	G			
•	109.8	Ğ			
	0	HIO			
VO	R RECEIVE	R CHECKI	POINTS		
Facility Name (Airport Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Buckeye (Port Bucyrus–Crawford Co)	109.8/BUD	A/2500	027	10.5	Over intersection E/W grass strip and Rwy 04–22.
Dryer (Loraine County Rgnl)	113.6/DJB	G	222	1.3	At intersection of taxiway and ramp.
Jefferson (Ashtabula Co)	115.2/JFN	G	067	2.4	On ramp.
Jefferson (Germack)	115.2/JFN	A/2000	278	9.0	At intersection of E/W interstate highway and N–S highway south of towr of Geneva Ohio.
Mansfield (Shelby Community)	108.8/MFD	A/2000	277	4.8	Over hangar NW corner of arpt.
Mansfield (Mansfield Lahm Rgnl)	108.8/MFD	G	134	4.7	At intersection of taxiways

Type Check

Pt.

Gnd.

Azimuth

from

Fac.

Dist.

from

Fac.

A and D.

of arpt.

of Rwy 22.

On NE taxiway abeam approach end Rwy 24.

Over water tank.

Over hangar on WSW side

On taxiway near apch end

1.2

24.2

5.5

.5

EC. 23 SEP 2010 to 18 NOV 2010

G

A/1800

A/2000

G

111.4/ZZV

050

295

270

028

VOR RECEIVER CHECK 403 **VOR TEST FACILITIES (VOT)** Facility Name Type VOT (Airport Name) Frea. Facility Remarks Akron Canton Rgnl...... 110.6 G Cincinnati Muni Arpt Lunken Field....... 108.4 G Cleveland Hopkins Intl 110.4 G Columbus (Port Columbus Intl.) 111.0 Gor Within 10 NM radius of A/2300-5000 airport. Dayton (James M Cox Dayton Intl.)......... 111.0 Within a 10 NM radius of G or A/2500-4000 arpt. A/2500-4000 WISCONSIN VOR RECEIVER CHECKPOINTS Type Check Azimuth Dist. Pt from from Gnd. Fac. Fac. Facility Name (Arpt Name) AB/ALT N.M. Freq/Ident Mag Checkpoint Description Eau Claire (Chippewa Valley Rgnl)..... 112.9/EAU G 182 21 Center of ramp. Green Bay (Austin Straubel Intl) 115.5/GRB G 141 46 On Twy M1 at Rwy 18R apch end. A/1900 12.7 Janesville 114.3/JVL 287 Over water tower N of Brodhead. Janesville (Southern Wisconsin Rgnl) 114.3/JVL G 035 4.3 On taxiway A1. Kenosha (Sylvania)..... 109.2/ENW A/2100 353 Over N/S interstate 59 highway bridge over E/W highway N of arpt. G 356 1.0 Runup pad AER Rwy 18. Madison (Dane Co Rgnl/Truax Fld) 108.6/MSN 151 0.6 On NE corner air national guard ramp adjacent to taxiway D. Manitowoc (Manitowoc Co) SW corner of terminal 111.0/MTW G 196 0.5 ramp.

VOR TEST FACILITIES (VOT)

111.8/0SH

110.6/STE

110.6/STE

111.6/AUW

Frea.

G

G

A/2500

G

A/2800

A/2500

Type VOT Facility

G

282

173

257

022

222

220

0.6

0.7

0.5

4

12.1

0.6

5.5

7.6

On taxiway at Rwy 09 apch

On N/S taxiway abeam

At intersection of E-W

On taxiway at Rwy 03 apch

Over N/S railroad and E/W road in Rudolph.

Over intersection of N-S and E-W rwvs.

Over microwave tower E of

Remarks

taxiway at terminal.

From AER 21.

Slinger.

Milwaukee (Gen Mitchell Intl) 109.0

Stevens Point (Stevens Point Muni).....

Wausau (Central Wisconsin).....

Facility Name

(Airport Name)

PARACHUTE JUMPING AREAS

The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unles otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the location listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

- To qualify for charting, a jump area must meet the following criteria:
 - (1) Been in operation for at least 1 year.
- (2) Operate year round (at least on weekends).(3) Log 4,000 or more jumps each year.
- (a) Log 4,000 or more jumps each year.

	DISTANCE AND RADIAL FROM	MAXIMUM	
LOCATION	NEAREST VOR/VORTAC	ALTITUDE	REMARKS
	ILLINOIS		
(c) Carmi Muni		9,500 AGL	3 NM radius. SR-SS weekends.
Deer Grove		12,500	3 NM radius. SR-SS Year round
Greenville Arpt	18 NM; 210°Vandalia	13,500	3 NM radius. Weekends and holidays, SR-1 hour after SS. Kansas City Center 127.7
(c) Hinckley Arpt	22 NM; 308°Joliet	14,500 AGL	2 NM radius. Mon-Fri 0800 to 1 hour after SS, Sat-Sun 0700 to hour after SS.
(c) Minier, Illinois Valley Parachute Club			
Arpt		15,000	Daily SR to 1 hour after SS.
(c) Ottawa, Skydive Chicago Arpt	23.1 NM; 250° Joliet	17,500 AGL	2 NM radius. SR to 1 hour past SS.
(c) Rantoul National Aviation Center–Frank Elliott Fld	16.5 NM; 019° Champaign	13,500	2 NM radius. Daily 0600-2200.
Sterling		12,000 AGL	Year round SR-SS. 10 NM radiu
Tampico		12,500	1 NM radius. 1000-SS daily.
(c) Taylorville, Taylorville Muni		15,000	5 NM radius. SR-1 hr past SS.
(c) Vandalia, Vandalia Muni	6.2 NM; 178° Vandalia	15,000	5 NM radius. Fri, Sat, Sun and holidays, SR-½ hour past SS. Kansas City Center 124.3
	INDIANA		Railsas City Center 124.3
(a) Augula Tri Ctata Ctanta - C- A	INDIANA	44.500	E NIM and the Mark Word Et a.
(c) Angola, Tri–State Steuben Co Arpt		14,500	5 NM radius, Mon, Wed, Fri, Sat Sun 0900–SS.
Cloverdale, Swope Airstrip		12,500	5 NM radius. SR–SS daily.
(c) Connersville		13,500	5 NM radius. Daily SR-SS.
Crawfordsville, Crawfordsville Muni (c) Flora. Flora Muni		15,000	3 NM radius. Fri–Sat–Sun SR–S 5 NM radius. Weekends and
(C) FIOTA, FIOTA MUIII	22.4 NINI; 272° KOKOMO	13,000	holidays, 0900–SS daily. Grissom APP CON 121.05
Franklin Flying Fld	17 NM; 220° Shelbyville	13,500	5 NM radius. SR-SS daily.
(c) Goshen Muni	10 NM; 090° Goshen	14,500 AGL	1 NM radius. Weds, Fri-Sat-Sun SR-SS. South Bend Rgnl Tow
			132.05
(c) Greensburg Muni		12,000 AGL	2 NM radius. 0900-2000 daily.
Hobart Sky Ranch Arpt		10,000 AGL	2 NM radius. Weds, weekends 0800-SS.
Kingsbury		1,500	0.3 NM radius. Occasional use.
Mentone		12,500	3 NM radius. SR-SS daily.
Muncie, Horizon Fld		13,000	Daily 0600-1900.
(c) Richmond, Richmond Muni	0 NM; Richmond	14,500	3 NM radius. SR-1 hour after SS-daily.
Veedersburg, Songer Arpt	24 NM; 220°Boiler	10,000	5 NM radius. Weekends and holidays, SR-SS.
	MICHIGAN		•
(c) Allegan, Padgham Fld	13 NM; 072° Pullman	10,700	2 NM radius. Daily SR-SS.
East Tawas, Iosco Co Arpt	8 NM; 192° Au Sable	15,000	5 NM radius. May-Oct SR-SS daily.
FowlervilleFremont Muni	20 NM; 225° Flint 16.2 NM; 008° Muskegon	12,000 12,000	5 NM radius. Apr-Oct 0800-SS. 3 NM radius. Apr-Oct Sat-Sun
Harbor Springs	17 NM; 235° Pellston	12,000	SR-SS. 3 NM radius. May-Sep daily

EC. 23 SEP 2010 to 18 NOV 2010

SR-SS.

(c) Mount Pleasant Muni Arpt...... Ø NM; Mount Pleasant.....

(c) Saginaw, Saginaw Co H.W. Browne 11 NM; 125° Saginaw

(c) Pulaski, Carter Arpt...... 5 NM; 350°Green Bay......

Arpt.....

PARACHUTE JUMPING AREAS

17 000 5 NM radius, Apr-Oct daily SR-SS. 13.500 5 NM radius, Mon. Wed. Thur. Fri.

14.000

15.000

12.000

405

REMARKS

2 NM radius. Apr-Oct daily SR-SS.

2 NM radius. Apr-Nov daily SR-SS

5 NM radius. Apr-Oct daily 0900-SS.

2 NM radius. Jan-Dec daily 0900-SS.

and weekends SR-SS. 5 NM radius. Daily SR-SS. 13.500 AGL 8.500 5 NM radius, SR-SS weekend. 14,000 Daily. Radius 2 NM. ius. Daily SR-SS. ekends. ius. 0900-2300 n. 1600-2300 Wed-Fri. te/Milton J. Ferguson wer 119.75 us. Wed 0600-Sun ort Columbus Intl Tower 00 Sat. Sun. SS.

Daily SR-SS.

Daily SR-SS.

SS

5 NM SR-SS daily.

3 NM radius. Daily SR-1 hour past

(c) bowing areen, boruner Arpt		14,000	Dally, Raulus 2 MM.
(c) Celina, Lakefield Arpt		14,000	1 NM radius. Daily SR-SS.
Centerburg, Chapman Mem	12 NM; 325°Appleton	12,000	SR-SS weekends.
(c) Chesapeake, Lawrence Co Airpark	26 NM; 052° Newcombe	11,000	1 NM radius. 0900-2300
			Sat-Sun. 1600-2300 Wed-Fri.
			Tri-State/Milton J. Ferguson
			Field Tower 119.75
(c) Circleville, Clark Dream Strip	13 NM: 332° Yellow Bud	17,500	2 NM radius. Wed 0600-Sun
(-,,,, -		,	2400. Port Columbus Intl Tower
			125.95
Commercial Point	32 NM· 233°Annleton	10,000	0800-2100 Sat, Sun.
Findlay		12,500 AGL	Daily.
Fulton County Arpt		10,500	Daily SR–SS.
(c) Garrettsville, Gates Arpt		13,500 AGL	SR-SS daily.
Grafton, Mole Arpt		12,500	0700–0930 daily.
Lebanon, Lebanon-Warren Co Arpt		14,500 AGL	5 NM radius. Daily SR-SS.
Mansfield		3.000	3 NM radius. Tue-Fri 0800-2200.
	,	-,	Unit training assemblies 1
			weekend a month.
Ottawa, Putnam County Arpt	10.9 NM: 298°Findlay	10,500 AGL	SR-2400.
(c) Petersburg		12,500 AGL	2 NM radius, Mon-Fri 1700-SS,
(o) 1 oto1 ozu1 g	1011111, 201 21111000 010, 1111111111	12,0007102	weekends SR-SS.
(c) Rittman, Hilty Fld	21 NM· 314° Bridge	16,000 AGL	5 NM radius. Daily 1 hour before
(c) kittiilaii, iiity i iu	ZI NW, JI4 Briggs	10,000 AGE	SR-1 hour after SS.
Salem, Phillis Lakefront Arpt	27 NM· 088°Briggs	10,000	Evening and weekends to SS
Stonelick Parachute Center		10,000	SR-SS daily.
Sycamore		12,500 AGL	1 NM radius. Daily SR-SS.
Van Wert County		10.000	Weekdays 1600-SS, Weekends
,,		,	SR-SS
Vickery, Wrights Fld	12 NM: 270°Sandusky	10,000 AGL	SR-SS weekends.
(c) Xenia, Skydive Green County Inc		12.500 AGL	Daily SR-2400.
,-,, ,	WISCONSIN	,,	
(c) Baldwin Arpt		15,000 AGL	Daily SR-1 hour past SS.
(c) Bristol, Winfield Arpt		12,500 AGL	SR-½ hour past SS.
(c) Chippewa Falls, Wissota Arpt		15,000 AGL	5 NM radius. Daily SR-1 hour past
(c) omppowa i ans, wissota ni pt	5 NW, 070 Lau Claire	13,000	SS.
(c) East Troy Muni Arpt	20 NM· 190°Badger	14,500 AGL	SR-½ hour past SS.
Edgerton, Jana Arpt		11,000	10 NM radius. Wed-Sun &
Lugorton, Jana Arpt	20 IVIVI, 142 IVIGUISUII	11,000	Holidays SR-SS.
(c) Fort Atkinson Muni	25 NM: 247° Badger	14,000	3 NM radius. Daily SR-SS.
Lake Delton		12,500	Daily May 15–Sept 25.
(c) Lancaster Muni Arpt		13,500 AGL	2 NM radius. Sat–Sun 0900–1 hr
(o, Lanoustoi muni Aipt	22.0 11/1, 300 Dubuque	10,000 AGL	past SS. Wed and Fri 1500–1 hr
			•
(c) Marshall, Mathaire Fld	16 NM: 059°Madiaan	12 500 401	past SS.
(c) marshall, mauhan'e FIG	TO NIVI; USS IVIAUISON	12,500 AGL	SR-½ hour past SS.

13,500 AGL

12,000 AGL

13.500

12,500 AGL

AERONAUTICAL CHART BULLETIN

The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown —route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

CHICAGO HELICOPTER ROUTE CHART 5th Edition, 12 May 2005

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OBSTRUCTIONS
12 May 2005 - 7 Jul 2005 No Major Changes.
1 Sep 2005 Add obst 896' MSL (300' AGL) UC, 41°46'40"N, 87°49'16"W.
27 Oct 2005 - 5 Jul 2007 No Major Changes.
30 Aug 2007 Change group obst from 1780'MSL (1195'AGL) to 1973'MSL (1375'AGL)UC, 41°53'20"N,
25 Oct 2007 Change obst from 1130'MSL (335'AGL) to 1195'MSL (400'AGL), 41°36'01"N, 87°58'44"W.
20 Dec 2007 - 31 Jul 2008 No Major Changes.
25 Sep 2008 Add obst 968′MSL (370′AGL)ŬC, 41°34′40″N, 87°31′33″W. 20 Nov 2008 – 17 Dec 2009 No Major Changes.
11 Feb 2010 Add obst 2589'MSL (2000'AGL) UC, 41°53'24"N, 87°36'54"W.
8 Apr 2010 - 23 Sep 2010 NO Major Changes.
AIRPORTS
12 May 2005 - 7 Jul 2005 No Major Changes.
 Sep 2005 Delete MILL ROSE arpt, 42°04'38"N, 88°09'35"W.
27 Oct 2005 Delete DARIEN-WOODRIDGE FIRE DEPT heliport, 41° 45'15"N, 88°00'26"W.
22 Dec 2005 - 5 Jul 2007 No Major Changes.
30 Aug 2007 Change CTAF freq 123.05 to 122.9 at SCHAUMBURG MUNI HELISTOP heliport,
42°02′53″N, 88°03′09″W.
Delete ADDISON FIRE DEPARTMENT STATION 3 heliport, 41°55'48"N, 88°02'28"W.
25 Oct 2007 - 10 Apr 2008 No Major Changes.
5 Jun 2008 Delete LANDIS PLASTICS heli, 41°40'43"N, 87°45'45"W.
Delete CRYSTAL LAKE HOLIDAY INN heli, 42°13′14"N, 88°17′05"W.
Delete CLARK heli, 42°22'06"N, 87°59'30"W.
31 Jul 2008 - 20 Nov 2008 No Major Changes.
15 Jan 2009 Change CHICAGO O'HARE ATCT frequencies from 120.75(S), 126.9(N), 127.925 132.7 390.9 to 120.75 126.9 (CNTR TWR), 132.7 390.9 (CNTR TWR), 135.925 (N TWR), 41°58′51″N,
87°54′23″W
12 Mar 2009 No Major Changes.
7 May 2009 Delete SEARS MERCHANDISE GROUP heli, 42°04'35"N, 088°13'01"W.
Change CHICAGO O'HARE ATCT freq from 135.925(N TWR) to 128.15(N TWR), 41°58′51″N, 87°54′23″W. 2 Jul 2009 – 11 Feb 2010 No Major Changes.
8 Apr 2010 Delete LEFKOWITZ heli, 42°09'40"N, 87°59'10"W.
Delete SHERMAN heli, 42°03′16″N, 88°16′50″W.
3 Jun 2010 No Major Changes.
29 Jul 2010 Change CHICAGO O'HARE INTL ATCT freq from 390.9 to 348.0, 41°58'54"N, 87°54'24"W.
23 Sep 2010 Delete ROSE NR 2 arpt 42°04'08"N, 88°08'30"W.
Delete ROSE NR 3 arpt 41°48′45″N, 87°39′47″W.
Delete ROSE PACKING CO arpt 41°48'10"N, 87°45'58"W.
NAVAIDs
12 May 2005 - 23 Sep 2010 No Major Changes.
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12 May 2005 – 25 Sep 2008 No Major Changes. 20 Nov 2008 Change CHICAGO Class B freq from 128.45 to 133.625. 12 Mar 2009 – 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

12 May 2005 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

12 May 2005 - 23 Sep 2010 No Major Changes.

MISCELLANEOUS

12 May 2005 - 17 Dec 2009 No Major Changes.

11 Feb 2010 Change MEF 2⁵ to 2⁷ in quadrant 41°45′-42°00′N, 87°30′-87°45′W.

8 Apr 2010 - 23 Sep 2010 No Major Changes.

CHICAGO SECTIONAL 80th Edition, 6 May 2010

AIRPORTS

NAVAIDs

3 Jun 2010 No Major Changes.

SPECIAL USE AIRSPACE

MISCELLANEOUS

MILITARY TRAINING ROUTES

OBSTRUCTIONS 3 Jun 2010 Add windmill farm. 1242' is highest MSL UC, 40°51'29"N, 89°06'25"W.

Add obst 1464'MSL (305'AGL), 43°34'09"N, 90°39'20"W. Add obst 1116'MSL (260'AGL)UC, 43°53'29"N, 89°19'41"W

Add obst 1113'MSL (320'AGL)UC, 43°57'07"N, 89°12'45"W.

23 Sep 2010 Add obst 1020'MSL (360'AGL), 41°38'33"N, 86°59'53"W. Add obst 1262'MSL (259'AGL)UC, 42°14'09"N, 91°24'07"W.

Add obst 1328'MSL (318'AGL), 41°37'36"N, 85°10'36"W. Add obst 1045'MSL (258'AGL), 41°59'18"N, 89°27'38"W. Add obst 1375'MSL (398'AGL)UC, 41°51'42"N, 88°55'58"W.

Add obst 967'MSL (258'AGL)UC, 40°55'14"N, 89°16'50"W. Add obst 895'MSL (258'AGL)UC, 40°28'52"N, 90°18'21"W. Add obst 788'MSL (258'AGL)UC, 40°25'33"N, 89°47'18"W. Add obst 1632'MSL (350'AGL)UC, 44°03'08"N, 92°54'04"W. Add obst 1056'MSL (310'AGL), 42°35'02"N, 85°31'36"W. Add obst 1243'MSL (310'AGL), 42°36'56"N, 85°22'15"W.

29 Jul 2010 Delete REINKE arpt, 41°53′57"N, 89°10′13"W.

Delete HUNTER arpt, 40°58′52″N, 85°55′44″W Delete KLOPFENSTEIN arpt, 40°46'02"N, 86°55'15"W. Delete DEYOUNG arpt, 42°58'04"N, 85°57'42"W. Delete HARRINGTON arpt. 41°10′59″N. 86°56′01″W.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 Add obst 1549'MSL (265'AGL)UC, 43°39'58"N, 91°55'52"W. Add obst 1045'MSL (258'AGL)UC, 41°59'18"N, 89°27'38"W.

Add obst 1000'MSL (288'AGL)UC, 41°06'49"N, 91°51'52"W. Add obst 1135'MSL (255'AGL)UC, 41°58'18"N, 91°22'46"W. Add obst 1205'MSL (310'AGL)UC, 42°37'49"N, 85°11'57"W.

Add obst 1025'MSL (260'AGL)UC, 41°21'32"N, 90°34'50"W.

Change CHICAGO O'HARE INTL ATCT freq from 390.9 to 348.0, 41°58′54″N, 87°54′24″W. **23 Sep 2010** Delete GUTWEIN arpt, 40°54′43″N, 86°52′26″W.

3 Jun 2010 Change WOLF LAKE VOR to WEBSTER LAKE VOR, 41°14'49"N, 85°29'51"W.

3 Jun 2010 Revise CEDAR RAPIDS, IA Class E. That airspace within a 5 mile radius of the Eastern Iowa Airport. This Class E airspace area is effective during specific dates and times established in advance by

Airport/Facility Directory. 29 Jul 2010 - 23 Sep 2010 No Major Changes.

3 Jun 2010 - 23 Sep 2010 No Major Changes.

3 Jun 2010 - 23 Sep 2010 No Major Changes.

3 Jun 2010 - 23 Sep 2010 No Major Changes.

a Notice to Airmen. The effective date and time will thereafter be continuously published in the

CHICAGO TERMINAL AREA CHART 80th Edition, 6 May 2010

3 Jun 2010 - 23 Sep 2010 No Major Changes.

AERONAUTICAL CHART BULLETIN

3 Jun 2010 No Major Changes. **29 Jul 2010** Change CHICAGO O'HARE INTL ATCT freq from 390.9 to 348.0, 41°58′54″N, 87°54′24″W.

23 Sep 2010 No Major Changes. 3 Jun 2010 - 23 Sep 2010 No Major Changes.

AIRSPACE 3 Jun 2010 - 23 Sep 2010 No Major Changes.

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OBSTRUCTIONS

SPECIAL USE AIRSPACE 3 Jun 2010 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

3 Jun 2010 - 23 Sep 2010 No Major Changes. MISCELLANEOUS 3 Jun 2010 - 23 Sep 2010 No Major Changes.

CINCINNATI SECTIONAL

84th Edition. 1 Jul 2010

OBSTRUCTIONS 29 Jul 2010 Add obst 2206'MSL (310'AGL), 37°16'09"N, 82°55'58"W. Add obst 2556'MSL (304'AGL)UC, 38°57'53"N, 80°01'49"W.

Add obst 1190'MSL (317'AGL)UC, 39°06'36"N, 82°41'29"W. Change obst from 2110'MSL (260'AGL) to 2210'MSL (260'AGL), 36°23'13"N, 84°20'11"W. **23 Sep 2010** Add obst 1088'MSL (299'AGL), 38°48'58"N, 84°46'53"W. Add obst 1804'MSL (355'AGL), 37°27'37"N, 79°59'39"W.

Add obst 1393'MSL (285'AGL), 36°35'10"N, 80°08'07"W. Add obst 927'MSL (257'AGL)UC, 36°24'41"N, 79°02'46"W. Add obst 636'MSL (310'AGL), 36°24'11"N, 77°55'45"W. Add obst 2052'MSL (315'AGĹ), 36°49'13″N, 83°19'44″W. Add obst 647'MSL (400'AGL), 36°12'41″N, 78°04'09″W.

Add obst 1158'MSL (308'AGL)UC, 38°33'10"N, 82°23'38"W. Add obst 1342'MSL (355'AGL)UC, 39°20'19"N, 78°45'27"W. Add obst 1509'MSL (255'AGL)UC, 39°42'41"N, 80°07'17"W.

AIRPORTS
29 Jul 2010 No Major Changes. 23 Sep 2010 Delete abandoned arpt symbol, 39°09'00"N, 80°12'00"W. Delete abandoned arpt symbol, 37°06'00"N, 81°50'00"W.

Delete Kite arpt, 36°31'00"N, 82°44'00"W. Change RP 31 to RP * at GRANT CO arpt, 38°59'00"N, 79°08'00"W.
Delete RP 18 at GREATER PORTSMOUTH RGNL arpt, 38°50'25"N, 82°50'50"W.

NAVAIDs 29 Jul 2010 No Major Changes. 23 Sep 2010 Shutdown AZALEA PARK NDB, 38°00'36"N, 78°31'05"W.

Delete COGAN NDB, 39°05′11″N, 78°04′06″W. AIRSPACE

29 Jul 2010 No Major Changes. 23 Sep 2010 Revise Mount Airy, NC Class E: That airspace extending upward from 700 feet above the

surface within a 9-mile radius of the Mount Airy-Surry County Airport and within 3.9 miles each side of the 353° bearing from the airport extending from the 9-mile radius to 15.3 miles north of the Mount Airy-Surry County Airport. SPECIAL USE AIRSPACE

29 Jul 2010 - 23 Sep 2010 No Major Changes. MILITARY TRAINING ROUTES 29 Jul 2010 - 23 Sep 2010 No Major Changes.

MISCELLANEOUS 29 Jul 2010 - 23 Sep 2010 No Major Changes. AERONAUTICAL CHART BULLETIN

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DETROIT HELICOPTER ROUTE CHART 1st Edition, 4 Aug 2005

OBSTRUCTIONS

1 Sep 2005 No Major Changes.

27 Oct **2005** Add group obst 1009'MSL (388'AGL) UC, 42°03'58"N, 83° 23'40"W. **22 Dec 2005 – 12 Mar 2009** No Major Changes. **7 May 2009** Add obst 1293'MSL (330'AGL), 42°09'30"N, 84°01'31"W.

2 Jul 2009 - 8 Apr 2010 No Major Changes.

3 Jun 2010 Add windmill farm. 1020' is highest MSL, 42°00'42"N, 82°56'42"W. Add obst 1408'MSL (430'AGL) UC, 42°21'20"N, 84°01'28"W.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

AIRPORTS 1 Sep 2005 Add SELFRIDGE ANGB ATCT 340.7, 42°36'46"N, 82°49'54"W.

27 Oct 2005 Delete HYNES arpt, 42°36'39"N, 83°43'58"W.

22 Dec 2005 - 8 Jun 2006 No Major Changes.

3 Aug 2006 Delete CTAF free, 122.9 at SALINE arpt., 42°08′47″N, 83°47′31″W.
 8 Sep 2006 – 10 May 2007 No Major Changes.
 5 Jul 2007 Delete CARRIAGE LANE arpt, 42°27′52″N, 84°02′05″W.
 30 Aug 2007 – 14 Feb 2008 No Major Changes.
 10 Apr 2008 Delete FULLER heliport,42°33′34″N, 83°10′40″W.

5 Jun 2008 - 31 Jul 2008 No Major Changes.

25 Sep 2008 Add SELFRIDGE ANGB ATCT freq 225.4, 42°36′30″N, 82°50′07″W. 20 Nov 2008 – 7 May 2009 No Major Changes.

2 Jul 2009 Delete INDEPENDENCE GREEN heliport, 42°28'12"N, 83°25'09"W. Delete COBO HALL

heliport, 42°19′33″N, 83°02′52″W.

neliport, 42 19 33 N, 03 04 32 W.
27 Aug 2009 - 17 Dec 2009 No Major Changes.
11 Feb 2010 Delete TECUMSEH arpt, 42°01′59″N, 83°52′37″W.
8 Apr 2010 - 29 Jul 2010 No Major Changes.
23 Sep 2010 Change DETROIT METRO WAYNE CO ATCT frequencies from 118.4(E), 135.0(W) & 287.1 to

118.4 (rwy 03R/21L), 128.125 (rwy 04L/22R), 135.0 (rwy 04R/22L) & 287.1 (rwys 04R/22L, 04L/22R & 03R/21L), 42°12′45″N, 83°21′12″W.

NAVAIDs 1 Sep 2005 - 13 Apr 2006 No Major Changes. 8 Jun 2006 Delete LAUREL NDB, 42°14′38″N, 83°02′51″W.

3 Aug 2006 - 23 Sep 2010 No Major Changes.

AIRSPACE 1 Sep 2005 - 15 Mar 2007 No Major Changes.

10 May 2007 Change DETROIT Class B freq from 124.9 to 127.5. 5 Jul 2007 - 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

1 Sep 2005 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

1 Sep 2005 - 23 Sep 2010 No Major Changes.

MISCELLANEOUS

1 Sep 2005 - 16 Feb 2006 No Major Changes. **13 Apr 2006** Change MEF 1¹ to 1² in quadrant $42^{\circ}00' - 42^{\circ}15'N$, $83^{\circ}15' - 83^{\circ}30'$ W.

8 Jun 2006 - 23 Sep 2010 No Major Changes.

	AERONAUTICAL CHART BULLETIN	411
	DETROIT SECTIONAL 81st Edition, 23 Sep 2010	
OBSTRUCTIONS 23 Sep 2010 No Major Changes.		
AIRPORTS 23 Sep 2010 No Major Changes.		
NAVAIDs 23 Sep 2010 No Major Changes.		
AIRSPACE 23 Sep 2010 No Major Changes.		
SPECIAL USE AIRSPACE 23 Sep 2010 No Major Changes.		
MILITARY TRAINING ROUTES 23 Sep 2010 No Major Changes.		
MISCELLANEOUS 23 Sep 2010 Change MEF 2 ⁹ to 3	8° in quadrant 41°30′00″ - 42°00′00″N, 76°30′00″ - 77°00′00″W.	
	DETROIT TERMINAL AREA CHART	
OBSTRUCTIONS	74th Edition, 23 Sep 2010	
23 Sep 2010 No Major Changes. AIRPORTS		
23 Sep 2010 No Major Changes. NAVAIDs		
23 Sep 2010 No Major Changes.		
AIRSPACE 23 Sep 2010 No Major Changes.		
SPECIAL USE AIRSPACE 23 Sep 2010 No Major Changes.		
MILITARY TRAINING ROUTES 23 Sep 2010 No Major Changes.		
MISCELLANEOUS 23 Sep 2010 No Major Changes.		

GREEN BAY SECTIONAL 80th Edition. 3 Jun 2010

OBSTRUCTIONS **3 Jun 2010** No Major Changes. **29 Jul 2010** Add obst 1531'MSL (310'AGL)UC, 46°31'08"N, 92°54'34"W.

Add obst 1942'MSL (250'AGL)UC, 46°09'40"N, 88°52'40"W. Add obst 1630'MSL (280'AGL), 46°47'26"N, 92°20'25"W.

Add obst 1590'MSL (320'AGL), 47°04'32"N, 92°45'07"W.

23 Sep 2010 Add obst 1650'MSL (280'AGL)UC, 46°23'09"N, 89°10'52"W. Add obst 1765'MSL (349'AGL), 47°24'22"N, 91°15'00"W.

Add obst 1223'MSL (305'AGL)UC, 46°31'56"N, 92°23'39"W. Add obst 1632'MSL (350'AGL)UC, 44°03'08"N, 92°54'04"W.

AIRPORTS

3 Jun 2010 - 29 Jul 2010 No Major Changes.

23 Sep 2010 Delete PIKE arpt. 47°39'07"N, 92°25'00"W.

NAVAIDs

3 Jun 2010 No Major Changes. 29 Jul 2010 Delete CUMBERLAND NDB, 45°30′33″N, 91°58′36″W. 23 Sep 2010 No Major Changes.

AIRSPACE 3 Jun 2010 - 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

3 Jun 2010 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

3 Jun 2010 - 23 Sep 2010 No Major Changes. MISCELLANEOUS

3 Jun 2010 - 23 Sep 2010 No Major Changes.

KANSAS CITY SECTIONAL 84th Edition. 3 Jun 2010

OBSTRUCTIONS 3 Jun 2010 No Major Changes.

AIRPORTS

29 Jul 2010 Add obst 1620'MSL (262'AGL)UC, 36°13'15"N, 93°08'16"W. Add obst 1067'MSL (265'AGL), 39°51'35"N, 93°12'24"W.

Add obst 1119'MSL (310'AGL), 39°59'44"N, 92°10'38"W. Add obst 1180'MSL (260'AGL), 37°58'22"N, 91°13'24"W.

Add obst 1334'MSL (425'AGL)UC, 38°53'11"N, 95°02'12"W. **23 Sep 2010** Add obst 941'MSL (278'AGL)UC, 39°23'30"N, 89°51'46"W.

Add obst 1244'MSL (404'AGL), 38°09'08"N, 93°39'44"W. Add obst 1382'MSL (310'AGL)UC, 39°11'25"N, 96°02'41"W.

Add obst 1279'MSL (260'AGL), 37°53'42"N, 92°05'34"W. Add obst 1050'MSL (215'AGL), 39°48'01"N, 92°23'59"W.

3 Jun 2010 No Major Changes.

29 Jul 2010 AIR PARK SOUTH arpt closed, 37°03′34″N, 93°14′03″W. **23 Sep 2010** Delete ARRAS arpt,39°20′17″N, 90°10′41″W.

NAVAIDs

3 Jun 2010 No Major Changes. **29 Jul 2010** Delete KENNETT NDB, 36°13′42″N, 90°02′21″W

23 Sep 2010 Shutdown PITTSBURG NDB,37°26'33"N, 94°43'36"W.

3 Jun 2010 - 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE 3 Jun 2010 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

3 Jun 2010 - 23 Sep 2010 No Major Changes.

MISCELLANEOUS 3 Jun 2010 - 23 Sep 2010 No Major Changes.

AERONAUTICAL CHART BULLETIN	413
LAKE HURON SECTIONAL 80th Edition, 23 Sep 2010	
OBSTRUCTIONS 23 Sep 2010 No Major Changes.	
AIRPORTS 23 Sep 2010 No Major Changes.	
NAVAIDs 23 Sep 2010 No Major Changes.	
AIRSPACE 23 Sep 2010 No Major Changes.	
SPECIAL USE AIRSPACE 23 Sep 2010 No Major Changes.	
MILITARY TRAINING ROUTES 23 Sep 2010 No Major Changes.	
MISCELLANEOUS 23 Sep 2010 No Major Changes.	
MINNEAPOLIS-ST. PAUL TERMINAL AREA CHART 74th Edition, 1 Jul 2010	
OBSTRUCTIONS 29 Jul 2010 – 23 Sep 2010 No Major Changes.	
AIRPORTS 29 Jul 2010 – 23 Sep 2010 No Major Changes.	
NAVAIDs 29 Jul 2010 – 23 Sep 2010 No Major Changes.	
AIRSPACE 29 Jul 2010 – 23 Sep 2010 No Major Changes.	
SPECIAL USE AIRSPACE 29 Jul 2010 – 23 Sep 2010 No Major Changes.	
MILITARY TRAINING ROUTES 29 Jul 2010 – 23 Sep 2010 No Major Changes.	
MISCELLANEOUS 29 Jul 2010 – 23 Sep 2010 No Major Changes.	
PITTSBURGH TERMINAL AREA CHART	
74th Edition, 23 Sep 2010	
OBSTRUCTIONS 23 Sep 2010 No Major Changes.	
AIRPORTS 23 Sep 2010 No Major Changes.	
NAVAIDs 23 Sep 2010 No Major Changes.	
AIRSPACE 23 Sep 2010 No Major Changes.	
SPECIAL USE AIRSPACE 23 Sep 2010 No Major Changes.	
MILITARY TRAINING ROUTES 23 Sep 2010 No Major Changes.	
MISCELLANEOUS 23 Sep 2010 No Major Changes.	

ST. LOUIS SECTIONAL 82nd Edition, 1 Jul 2010

OBSTRUCTIONS

29 Jul 2010 Add obst 1022'MSL (308'AGL)UC, 39°38'13"N, 87°04'56"W.

Add obst 883'MSL (383'AGL)UC, 37°21'47"N, 87°30'56"W.

Add obst 1386'MSL (255'AGL)UC, 37°10'17"N, 84°34'39"W. Add obst 990'MSL (258'AGL)UC, 39°53'39"N, 88°43'31"W. Add obst 848'MSL (260'AGL)UC, 38°50'53"N, 90°47'56"W.

23 Sep 2010 Add obst 1088'MSL (299'AGL), 38°48'58"N, 84°46'53"W. Add obst 941'MSL (278'AGL)UC, 39°23'29"N, 89°51'46"W.

Add obst 876'MSL (258'AGL)UC, 39°32'44"N, 89°09'24"W.

Add obst 1109'MSL (310'AGL)UC, 38°50'24"N, 85°29'50"W. Add obst 835'MSL (290'AGL)UC, 36°34'39"N, 87°08'32"W.

Add obst 2115'MSL (265'AGL)UC, 36°08'04"N, 85°04'08"W. Add obst 972'MSL (255'AGL), 37°42'39"N, 86°31'35"W.

Add obst 1049'MSL (255'AGL), 37°06'16"N, 85°26'55"W.

AIRPORTS 29 Jul 2010 Change CTAF 122.9 to 122.8 at CYNTHIANA-HARRISON CO arpt 38°21′58″N, 89°24′20″W. 23 Sep 2010 Delete CAREFERRE ACRES arpt, 39°10′59″N, 87°07′34″W.

Delete ARRAS RLA arpt, 39°20′17″N, 90°10′41″W. Change CTAF 122.8 to 123.05 at ALEXANDRIA arpt. 40°13'57"N. 85°38'15"W.

Change CTAF 122.8 to 122.9 at CYNTHIANA-HARRISON CO arpt, 38°21'58"N, 84°17'00"W.

NAVAIDs 29 Jul 2010 Delete DYERSBURG NDB, 35°59'42"N, 89°24'20"W. **23 Sep 2010** Delete NORTH VERNON NDB, 39°02'59"N, 85°36'03"W.

Delete GENEVA NDB. 37°48'11"N. 87°46'14"W.

AIRSPACE

29 Jul 2010 Revise MARION, IL Class E: That airspace extending upward from 700 feet above the surface bounded by a line beginning at lat. 37°53'40" N., long. 88°48'35" W.; to lat. 37°56'25" N., long. 89°02'40" W.; to lat. 37°58'45" N., long. 89°20'25" W.; to lat. 37°47'25" N., long. 89°26'00" W.; to lat. 37°40'40" N., long. 89°20'17" W.; to lat. 37°34'56" N., long. 89°20'25" W.; to lat. 37°34'48" N., long. 89°10'21" W.; to lat. 37°37'05" N., long. 89°10'18" N., long. 89°1

37°32′50″ N., long. 88°59′00″ W.; to lat. 37°42′35″ N., long. 88°52′15″ W.; to the point of beginning. Revise MANILA, AR Class E: That airspace extending upward from 700 feet above the surface within a 6.4-mile radius of Manila Municipal Airport.

23 Sep 2010 No Major Changes. SPECIAL USE AIRSPACE

29 Jul 2010 No Major Changes.

23 Sep 2010 Add SULLIVAN, IN. Restricted Area, R-3405. Beginning at 39°07′41″N, 87°22′02″W; to 39°07′41″N, 87°21′29″W; to 39°07′39″N, 87°21′29″W; to 39°07′39″N, 87°21′26″W; to 39°07′41″N, 87°21′12″W; to 39°07′00″N, 87°21′26″W; to 39°07′41″N, 87°21′42″W; to 39°07′41″N, 87°21′42″W; to 39°07′00″N, 87°21′40″W; to 39°07′41″N, 87°21′40″W; to 39°07′40″N, 87°21′40″W; to 39°07

Controlling Agency, FAA, Terre Haute ATCT. Revise CRANE, IN. Restricted Area R-3404. That airspace within a 1 NM radius of 38°49'30"N,

86°50'08"W. Designated altitudes. Surface to and including 4,100 feet MSL. Time of designation. Sunrise to sunset, daily from May 1 through and including November 1. Other times by NOTAM 24 hours in advance. Controlling agency. FAA, Terre Haute ATCT.

MILITARY TRAINING ROUTES 29 Jul 2010 - 23 Sep 2010 No Major Changes. MISCELLANEOUS 29 Jul 2010 - 23 Sep 2010 No Major Changes.

74th Edition. 1 Jul 2010

ST. LOUIS TERMINAL AREA CHART

29 Jul 2010 Add obst 848'MSL (260'AGL)UC, 38°50'53"N, 90°47'56"W. 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

TWIN CITIES SECTIONAL

80th Edition, 1 Jul 2010

29 Jul 2010 Add obst 1765'MSL (420'AGL), 45°57'52"N, 95°03'42"W.

Add obst 1709'MSL (320'AGL), 46°18'32'N, 95°30'00'W. Add obst 1682'MSL (320'AGL), 47°26'32'N, 93°50'09'W. Add obst 1693'MSL (320'AGL), 47°03'17"N, 94°26'03"W. Add obst 1789'MSL (320'AGL), 46°56'58"N, 94°50'44"W. Add obst 1590'MSL (320'AGL), 47°04'32"N, 92°45'07"W.

23 Sep 2010 Add obst 1458'MSL (265'AGL), 45°44'03"N, 93°56'21"W. Add obst 1547'MSL (325'AGL)UC, 46°04'28"N, 94°28'29"W. Add obst 1418'MSL (350'AGL)UC, 45°34'32"N, 93°55'25"W. Add obst 1840'MSL (350'AGL)UC, 46°55'20"N, 93°55'18"W.

Add obst 1658'MSL (320'AGL), 46°24'12"N, 95°32'24"W. Add windmill farm. 1910' is highest MSL, 47°19'09"N, 97°55'56"W.

Add obst 1389'MSL (350'AGL)UC, 44°49'58"N, 94°16'51"W. Add obst 1578'MSL (300'AGL)UC, 46°59'58"N, 93°02'38"W. Add obst 1805'MSL (305'AGL)UC, 46°56'11"N, 95°13'26"W. Add obst 1668'MSL (250'AGL)UC, 46°15'20"N, 95°04'21"W. Add obst 1531'MSL (255'AGL)UC, 45°20'30"N, 95°05'09"W.

Add obst 2118'MSL (420'AGL)UC, 47°10'06"N, 95°27'16"W. 29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

EC. 23 SEP 2010 to 18 NOV 2010

23 Sep 2010 Add PAYNESVILLE, MN Class E: That airspace extending upward from 700 feet above the surface within a 7.2-mile radius of Paynesville Municipal Airport.

AIRSPACE

29 Jul 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

MISCELLANEOUS

MILITARY TRAINING ROUTES

OBSTRUCTIONS

AIRPORTS

AIRSPACE

SPECIAL USE AIRSPACE

MISCELLANEOUS

OBSTRUCTIONS

MILITARY TRAINING ROUTES

AIRPORTS

SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private—use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

UNITED STATES

FACILITY MANE	UNIT	TED STATES
Chicago App/Dep Con 133.1 285.6 Esago Michits M. If (97MT) Salt Lake Center App/Dep Con 126.85 305.2 Salt Lake Center App/Dep Con 126.85 305.2 Salt Lake Center App/Dep Con 126.85 305.2 L-10F ASOS 118.325 West Kentucky Airpark, W (15W3) L-16 Michits M. If (15M5) L-16 Michits M. If (15M5) Michits M. If	FACILITY NAME	CHART & PANEL
Bisagow Industrial, MI (97MT)	Frankfort, IL (LL4Ø)	L-28H
Sait Lake Center App/Dep Con 126.85 305.2	Chicago App/Dep Con 133.1 285.6	
USAF Academy Bullseye Bux Airstrip, C0 (CO99)	Glasgow Industrial, MT (Ø7MT)	H-1E, 2F, L-13D
ASOS 118.325 Mest Kentucky Airpark, KY (SKY3) L-16 Memphils Center App/Dep Con 133.65 292.15 H-8 , L-23C Milliam P Gwinn, Rt (GFA) H-8 , L-23C Gwinn Tower 120.4 279.25 (Mon-Fri 1300-2100Z‡) Gnd Con 121.65 279.25 GND FACILITY NAME	Salt Lake Center App/Dep Con 126.85 305.2	
West Kentucky Airpark, NY (SKY3)	USAF Academy Bullseye Aux Airstrip, CO (CO9Ø)	L-10F
Memphis Center App/Dep Con 133.65 292.15		
William P Swinn, Ft (66FA) H-8I, L-23C		L-16I
Gwinn Tower 120.4 279.25 (Mon-Fri 1300-21002‡) Gnd Con 121.65 279.25 CANADA CHART & PANEL Albubstort, B.B. (CYXX)		
CANADA		H-8I, L-23C
FACILITY NAME		
Abbotsford, BC (CYXX)	Gnd Con 121.65 279.25	
Abbotsford, BC (CYXX)	CAN	IADA
Abbetsford, BC (CYXX)		
ATIS 119.8 (1500-070072†) Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8 Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-070072†) Gnd Con 121.8 MF 119.4 295.0 (0700-150072†) (Shape irregular to 4500') MnostMagny, QC (CYEY) Montreal Center App/Dep Con 125.9 Atikikan Muni, DN (CYIB) Barrie-Orillia (Lake Simcee Rgnl), QN (CYLS) ANOS 122.55 (PW) Toronto Center App/Dep Con 124.025 Bar River, ON (CPE?) Toronto Center App/Dep Con 132.65 Bathurst, MB (CZBF) Montcon Center App/Dep Con 134.25 Boundary Bay, BC (CZBB) ATIS 125.5 (1500-070072†) Vancouver App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500-070072†) Gnd Con 124.3 MF 118.1 (0700-150072† to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.) Brampton, DN (CNC3) Toronto Trml App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') Brandford, DN (CYFD) Toronto Trml App/Dep Con 138.27 Brockville-Thousand Islands Rgnl Tackaberry, DN (CNL3) MF 127.1 (CRC) Montreal Center App/Dep Con 134.25 Burlington Airpark, DN (CZBA) L-31D Toronto Trml App/Dep Con 138.27 Brockville-Thousand Islands Rgnl Tackaberry, DN (CNL3) Montreal Center App/Dep Con 134.2 52.3 MF 122.1 (5 NM to 4000') Brantford, DN (CYED) Toronto Trml App/Dep Con 134.2 52.3 MF 122.1 (5 NM to 6500') Burlington Airpark, DN (CZBA) Montreal Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Burlington Airpark, DN (CZBA) MF 122.1 (5 NM to 6500') Catriala/James T. Rif Muni, DN (CYCE) Toronto Center App/Dep Con 135.50 Charitam-Kent, UN (CNC3) H-106, L-306 Charitam-Kent, UN (CNC3)		
Victoria Tmil App/Dep Con 132.7 (Avbl on ground) 290.8 Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-07002t) Gnd Con 121.8 MF 119.4 (295.0 (10700-15002t) (Shape irregular to 4500')		==, = ==.
Mns/Magny, QC (CYEY)		0.8
Amos/Magny, QC (CYEY)	Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-0700	OZ‡) Gnd Con 121.8
Amos/Magny, QC (CYEY)	MF 119.4 295.0 (0700-1500Z‡) (Shape irregular to 4	1500')
Attikokan Muni, 0N (CYIB)		
MF 122.3 (5 NM to 4500' No ground station) Barrie-Orillia (Lake Simcoe Rgml), 0N (CYLS)	Montreal Center App/Dep Con 125.9	
Barrie-Orillia (Lake Simcoe Rgnl), ON (CYLS)	Atikokan Muni, ON (CYIB)	L-14I
AWOS 122.55 (Pvt) Toronto Center App/Dep Con 124.025 Bar River, ON (CPF2) Toronto Center App/Dep Con 132.65 Bathurst, NB (CZBF) Moncton Center App/Dep Con 134.25 Boundary Bay, BC (CZBB) ATIS 125.5 (1500–0700Z‡) Vancouver App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (0700–1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.) Brampton, ON (CNC3) Toronto Trml App/Dep Con 132.35.1 Brandon Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') Brantford, ON (CYED) L-31D Toronto Trml App/Dep Con 134.675 Bromont, QC (CZBM) Montreal Center App/Dep Con 134.675 Bromont, QC (CZBM) L-32G Montreal Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Centralia/James T. Fild Muni, ON (CYCE) Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG) H–10G, 118, L–31D Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG) H–10G, 136.5 384.8 MF 118.0 (5 NM to 3200') Chatlam-Kent, ON (CNZ3) H–10G, L–30G Chatlam-Kent, ON (CNZ3) H–10G, L–30G	MF 122.3 (5 NM to 4500' No ground station)	
Toronto Center App/Dep Con 124.025 Bar River, ON (CPF2)	Barrie-Orillia (Lake Simcoe Rgnl), ON (CYLS)	H-11B, L-31D
Bar River, ON (CPF2)	AWOS 122.55 (Pvt)	
Toronto Center App/Dep Con 132.65	Toronto Center App/Dep Con 124.025	
Bathurst, NB (CZBF) L-32J Monotton Center App/Dep Con 134.25	Bar River, ON (CPF2)	L-31C
Moncton Center App/Dep Con 134.25	Toronto Center App/Dep Con 132.65	
Boundary Bay, BC (CZBB)		L-32J
ATIS 125.5 (1500–0700Z‡) Vancouver App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (0700–1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.) Brampton, 0N (CNC3) Toronto Trml App/Dep Con 119.3 253.1 Brandon Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') Brantford, 0N (CYFD) Toronto Trml App/Dep Con 128.27 Brockville—Thousand Islands Rgnl Tackaberry, 0N (CNL3) Montreal Center App/Dep Con 134.675 Bromont, 0C (CZBM) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') Burlington Airpark, 0N (CZBA) Toronto Center App/Dep Con 119.3 253.1 Castlegar/West Kootenay Rgnl, BC (CYCG) Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Centralia/James T. Fid Muni, 0N (CYCE) Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG) Monotron Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham–Kent, 0N (CNZ3) H–10G, L–30G	Moncton Center App/Dep Con 134.25	
Vancouver App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (0700–1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.) Brampton, 0N (CNC3) Toronto Trml App/Dep Con 119.3 253.1 Brandon Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') Brantford, 0N (CYFD) Toronto Trml App/Dep Con 128.27 Brockville-Thousand Islands Rgnl Tackaberry, 0N (CNL3) Montreal Center App/Dep Con 134.675 Bromont, QC (CZBM) Toronto Genter App/Dep Con 132.35 MF 122.15 (5 NM to 3400') Burlington Airpark, 0N (CZBA) Toronto Center App/Dep Con 139.3 253.1 Castlegar/West Kootenay Rgnl, BC (CYCG) Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Centralia/James T. Fld Muni, 0N (CYCE) Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG) H–11E, L–32J Monot Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham-Kent, 0N (CNZ3) H–10G, L–30G Chatham-Kent, 0N (CNZ3)	Boundary Bay, BC (CZBB)	H-1B, L-1E
Tower 118.1 (Inner) 127.6 (Outer) (1500–0700Z‡) Gnd Con 124.3 MF 118.1 (0700–1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.) Brampton, 0N (CNC3) Toronto Trml App/Dep Con 119.3 253.1 Brandon Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') Brantford, 0N (CYFD) Toronto Trml App/Dep Con 128.27 Brockville–Thousand Islands Rgnl Tackaberry, 0N (CNL3) Montreal Center App/Dep Con 134.675 Bromont, QC (CZBM) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') Burlington Airpark, 0N (CZBA) Toronto Center App/Dep Con 139.3 253.1 Castlegar/West Kootenay Rgnl, BC (CYCG) Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Centralia/James T. Fld Muni, 0N (CYCE) Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG) Monton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham–Kent, 0N (CNZ3) H–10G, L–30G	ATIS 125.5 (1500-0700Z‡)	
## 118.1 (0700–1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.) ### Brampton, ON (CNC3) Toronto Trml App/Dep Con 119.3 253.1 ### Brandon Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') ### Brandon Muni, MB (CYBR) ### Brandon Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') ### Brandon Mini, MB (CYBR) ### Brockville—Thousand Islands Rgnl Tackaberry, ON (CNL3) #### Brockville—Thousand Islands Rgnl Tackaberry, ON (CNL3) ###################################		
Brampton, ON (CNC3)		
Toronto Trml App/Dep Con 119.3 253.1		
Brandon Muni, MB (CYBR)		L-31D
Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000') Brantford, 0N (CYFD)		
MF 122.1 (5 NM to 4000') Brantford, ON (CYFD) Toronto Trml App/Dep Con 128.27 Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3) Montreal Center App/Dep Con 134.675 Bromont, QC (CZBM) L-32G Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') Burlington Airpark, ON (CZBA) Toronto Center App/Dep Con 119.3 253.1 Castlegar/West Kootenay Rgnl, BC (CYCG) Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Centralia/James T. Fld Muni, ON (CYCE) Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG) Monoton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham-Kent, ON (CNZ3) H-10G, L-30G		H-2H
Brantford, ON (CYFD) L−31D Toronto Trml App/Dep Con 128.27 L−32G Brockville-Thousand Islands Rgml Tackaberry, ON (CNL3) L−32G Montreal Center App/Dep Con 134.675 L−32G Bromont, QC (CZBM) L−32G Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') L−31D Toronto Center App/Dep Con 119.3 253.1 L−31D Castlegar/West Kootenay Rgnl, BC (CYCG) H−1C Vancouver Center App/Dep Con 134.2 227.3 H−10C MF 122.1 (5 NM to 6500') H−10G, 11B, L−31D Toronto Center App/Dep Con 135.30 H−10G, 11B, L−32D Charlottetown, PE (CYYG) H−11E, L−32J Monoton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') H−10G, L−30G Chatham-Kent, ON (CNZ3) H−10G, L−30G		
Toronto Trml App/Dep Con 128.27 Brockville-Thousand Islands Rgnl Tackaberry, 0N (CNL3) L-32G Montreal Center App/Dep Con 134.675 L-32G Montreal Center App/Dep Con 134.675 L-32G Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400') Burlington Airpark, 0N (CZBA) L-31D Toronto Center App/Dep Con 119.3 253.1 L-31D Castlegar/West Kootenay Rgnl, BC (CYCG) H-1C Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') H-10G, 11B, L-31D Toronto Center App/Dep Con 135.30 H-10G, 12B, L-32D Monotton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') M-10G, L-30G Chatham-Kent, 0N (CNZ3) H-10G, L-30G		
Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3)		L-31D
Montreal Center App/Dep Con 134.675		
Bromont, QC (CZBM)		L-32G
Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400')		
Burlington Airpark, ON (CZBA)		
Toronto Center App/Dep Con 119.3 253.1		
Castlegar/West Kootenay Rgnl, BC (CYCG) H-1C Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Centralia/James T. Fld Muni, 0N (CYCE) H-10G, 11B, L-31D Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG) H-11E, L-32J Monoton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham-Kent, 0N (CNZ3) H-10G, L-30G		L-31D
Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500') Centralia/James T. Fid Muni, 0N (CYCE) Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG) Monoton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham–Kent, 0N (CNZ3) H–10G, L–30G		11.40
MF 122.1 (5 NM to 6500') Centralia/James T. Fld Muni, 0N (CYCE) Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG) Monoton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham–Kent, 0N (CNZ3) H–10G, L–30G		H-1C
Centralia/James T. Fld Muni, ON (CYCE) H-10G, 11B, L-31D Toronto Center App/Dep Con 135.30 H-11E, L-32J Charlottetown, PE (CYYG) H-11E, L-32J Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham-Kent, ON (CNZ3) H-10G, L-30G		
Toronto Center App/Dep Con 135.30 Charlottetown, PE (CYYG)		H_10G 11P I 21D
Charlottetown, PE (CYYG) H-11E, L-32J Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham-Kent, ON (CNZ3) H-10G, L-30G		n-10d, 11B, L-31D
Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200') Chatham-Kent, ON (CNZ3) H-10G, L-30G		H_11F I_22I
Chatham-Kent, ON (CNZ3) H-10G, L-30G		
		11 154, 1-504

SUPPLEMENTAL COMMUNICATION REFERENCE	417
FACILITY NAME	CHART & PANEL
Collingwood, ON (CNY3)	H-11B, L-31D
Toronto Center App/Dep Con 124.02	L-32G
Cornwall Rgnl, ON (CYCC) Boston Center App/Dep Con 135.25 377.1	L-32G
Cranbrook/Canadian Rockies Intl, BC (CYXC)	H-1C
Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	
Debert, NS (CCQ3) Halifax Trml App/Dep Con 119.2	H-11E, L-32J
Digby, NS (CYID)	L-32J
Moncton Center App/Dep Con 123.9	
Downsview, ON (CYZD)	H-11B, L-31E
Toronto Center App/Dep Con 133.4 MF 126.2 (1300–2300Z‡, 3 NM to 1700′)	
Drummondville, QC (CSC3)	L-32H
Montreal Center App/Dep Con 132.35	
Earlton (Timiskaming Rgnl), ON (CYXR)	H-11B
MF 122.0 (5 NM to 3800') AWOS 128.6	
Elliot Lake Muni, ON (CYEL)	L-31C
Toronto Center App/Dep Con 135.4	
Fort Frances Muni, ON (CYAG)	L-14H
Minneapolis Center App/Dep Con 120.9 Fredericton Intl, NB (CYFC)	H-11E, L-32I
ATIS 127.55 (1045–0245Z‡, OT AWOS)	112, 2 02.
Moncton Center App/Dep Con 124.3 135.5 270.8	
Tower 119.0 (1045–0245Z‡) Gnd Con 121.7 (1045–0245Z‡) MF 119.0 (0245–1045Z‡, 5 NM to 3500')	
Goderich, ON (CYGD)	H-11B, L-31D
Toronto Center App/Dep 135.3 266.3	
Greenwood, NS (CYZX)	H-11E, L-32J
ATIS 128.85 244.3 (1100-0000Z‡) App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3	
Gnd Con 133.75 289.4 Clnc Del 128.025 283.9	
Grimsby Air Park, ON (CNZ8)	L-31E
Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	
Halifax/Shearwater, NS (CYAW) ATIS 129.175 (Ltd hrs)	H-11E, L-32J
App/Dep Con 119.2 MF Shearwater Advisory 119.0 126.2 340.2 360.2 (Ltd hrs)	
Gnd Con 121.7 250.1	
Halifax/Stanfield Intl, NS (CYHZ)	H-11E, L-32J
ATIS 121.0 Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 363.8	
Tower 118.4 236.6 Gnd Con 121.9 275.8 Clnc Del 123.95	
Apron Advisory 122.125	
Hamilton, ON (CYHM)	H-10H, 11B, L-11B
ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0	
Gnd Con 121.6	
Kingston, ON (CYGK)	H-11C, L-31E, 32F
Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡)	
MF 122.5 (1115-0400Z‡ 5 NM to 3300') Kitchener/Waterloo, DN (CYKF)	H-11B, L-31D
ATIS 125.1 (1200–0400Z‡)	11 110, 2 010
Toronto Trml App/Dep Con 128.275	
Waterloo Tower 126.0 118.55 (1200-0400Z‡) Gnd Con 121.8	
MF 126.0 (0400–1200Z‡ 5 NM to 4000') Lachute, QC (CSE4)	L-32G
Montreal Center App Con 124.65 132.85 268.3	2 020
Montreal Center Dep Con 132.85 268.3	
La Tuque, QC (CYLQ)	H-11C
Montreal Center App/Dep Con 134.5 Langley, BC (CYNJ)	L-1E
ATIS 124.5 (1630–0230Z, DT 1530–0330Z)	L-1E
Victoria Trml App/Dep Con 132.7 290.8 Tower 119.0 (1630–0230Z,	
DT 1530-0330Z)	
Gnd Con 121.9 MF 119.0 (0230–1630Z, DT 0330–1530Z 3 NM to 1900')	

418 SUPPLEMENTAL COMMUNICATION REFERENCE FACILITY NAME CHART & PANEL Leamington, ON (CLM2) 1-30F Cleveland Center App/Dep Con 132.45 Lethbridge, AB (CYOL) H-1D ATIS 124.4 (1300-0545Z‡) Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000') Lindsay, ON (CNF4) L-31E. L-32F Toronto Center App/Dep 134.25 Liverpool/South Shore Rgnl, NS (CYAU) 1-321 Moncton Center App/Dep Con 123.9 H-10G, 11B. London, ON (CYXU) ATIS 127.8 (1120-0345Z‡) L-30G. 31D Toronto Center App/Dep 135.3 135.625 Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9 MF 119.4 (0345-1120Z‡ 5 NM to 3000') L-31C Manitowaning/Manitoulin East Muni, ON (CYEM) Toronto Center App/Dep 135.4 260.9 Maniwaki, QC (CYMW) L-32G Montreal Center App/Dep Con 126.57 Mascouche, QC (CSK3) 1-32G MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the N shore of Riviere des Milles-Iles and 1 NM around Lac Agile Mascouche arpt.) Medicine Hat, AB (CYXH) H-1D AWOS 124.875 (0345-1245Z±) MF 122.2 (1245-0345Z‡ 5 NM to 5400') Midland/Huronia, ON (CYEE) L-31D

ΔTIS 125 7 Montreal Center App Con 124.65 132.85 268.3 Montreal Dep Con 132.85 268.3 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl. QC (CYUL) Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3

Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 (W-NW-NE) 268.3

ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9

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St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15

App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8

Toronto Center App/Dep 124.025

Moncton Center App/Dep Con 123.7 Moncton/Greater Moncton Intl. NB (CYOM)

Montreal Center App/Dep Con 126.57 Montreal Intl (Mirabel), QC (CYMX)

Montreal Center App/Dep Con 125.15 268.3

AWOS 124.575 Timmins Radio App/Dep Con 122.3

Miramichi, NB (CYCH)

ATIS 128 65

Apron Advisory 122.075 Mont-Laurier, QC (CSD4)

VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU)

Muskoka, ON (CYQA)

2500') North Bay, ON (CYYB)

Oshawa, ON (CYOO)

MF 122.3 (5 NM to 3900') Nanaimo, BC (CYCD)

ATIS 124.9 (1130-0330Z‡)

ATIS 125.675 (1130-0330Z‡) Toronto Trml App/Dep Con 133.4

Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')

Tower 120.1 (1130-0330Z‡) Gnd Con 118.4 MF 120.1 (0330-1130Z‡ 5 NM to 3000')

H-11B, L-31D H-1B, L-1E Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 291.8 1330-0530Z‡ (5 NM to L-31E H-11B, L31D

H-11E, L-32J

H-11E. L-32J

H-11C, 12K, L-32G

H-11C, 12K, L-32G

H-11C, L-32G

L-32G

SUPPLEMENTAL COMMUNICATION REFERENCE **FACILITY NAME** CHART & PANEL Ottawa/Carp. ON (CYRP) L-31E, 32F ATIS 121.15 Ottawa Trml App/Dep Con 128.175 Ottawa/Gatineau, QC (CYND) H-11C, L-32G Ottawa Trml App/Dep Con 127.7 128.175 MF 122.3 (5 NM shape irregular to 2500') VFR Advisory Ottawa Trml 127.7 Ottawa/MacDonald-Cartier Intl, ON (CYOW) ATIS 121.15 Ottawa App Con 135.15 Tower 118.8 (VFR South) 120.1 (VFR North) 118.8 341.3 Gnd Con 121.9 Clnc Del 119.4 Ottawa Dep Con 128.175 Owen Sound/Billy Bishop Rgnl, ON (CYOS) L-31D Toronto Center App/Dep 132.575 290.6 L-30F Pelee Island, ON (CYPT) Cleveland Center App/Dep Con 126.35 360.0 H-11C, L-31E, 32F Pembroke, ON (CYTA) Montreal Center App/Dep Con 135.2 Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z‡, OT PPR) Penticton, BC (CYYF) Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100') Peterborough, ON (CYPQ) AWOS 126.925 Toronto Center App/Dep 134.25 Pincher Creek, AB (CZPC) Edmonton Center App/Dep Con 132.75 265.2 Pitt Meadows, BC (CYPK) ATIS 125.0 (1500-0700Z‡) Vancouver Center App Con 128.6 352.7 (Outer) Pitt Tower 126.3 (1500-0700Z‡) Gnd Con 123.8 Vancouver Center Dep Con 132.3 363.8 (South) MF 126.3 (0700-1500Z‡) (3NM to 2500')

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H-2H

H-1R

H-11B, L-31E, 32F H-1D L-1E Quebec/Jean Lesage Intl, QC (CYQB) H-11D, L-32H ATIS 134 6

Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8 Tower 118 65 236 6 Gnd Con 121.9 250.0 Riviere Du Loup, QC (CYRI)

H-11D AWOS 122.025 (Pvt) Montreal Center App/Dep Con 125.1 299.6 H-11B Rouyn Noranda, QC (CYUY) Montreal Center App/Dep Con 125.9

MF 122.2 (5 NM to 4000') Saint John, NB (CYSJ) H-11E, L-32J

Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400') Sarnia (Chris Hadfield), ON (CYZR) H-10G, 11B, L-30F

AWOS 119.125 Toronto Center App/Dep Con 134.375 Sault Ste Marie, ON (CYAM) H-2K, L-31B

ATIS 133.05 (1300-0100Z‡) Toronto Center App/Dep Con 132.65 344.5 Tower 118.8 (1300-0100Z‡) Gnd Con 121.7 (1300-0100Z‡)

MF 118.8 (0100-1300Z‡ 5 NM irregular shape to 3000') Sherbrooke, QC (CYAM) H-11D, L-32H AWOS 126.25

Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800') South Renfrew Muni. ON (CNP3) L-31E. 32F Montreal Center App/Dep 124.275

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Tower 126.2 384.2 (Mon-Fri 1400-2300Z‡ except holidays) Gnd Con 121.7 275.8

ATIS 120.85 (Mon-Fri 1400-2300Z‡ except holidays)

Southport, MB (CYPG)

420 SUPPLEMENTAL COMMUNICATION REFERENCE

CILITY NAME	CHART & PAN
Springwater Barrie Airpark, ON (CNA3)	L-3:
Toronto Center App/Dep Con 124.025	
St. Catherines/Niagara District, ON (CYSN)	H-10H, 11B, L-3
ATIS 128.525 (1215-0200Z‡)	
Toronto Trml App/Dep Con 133.4 253.1	
MF 123.25 (1215–0200Z‡ 5 NM to 3300′)	
St Frederic, QC (CSZ4)	L-3
Montreal Center App/Dep Con 135.025 270.9	
St. Georges, QC (CYSG)	H-32H, L-1
Montreal Center App/Dep Con 132.35	
MF 122.15 (5 NM 3900' ASL)	
St. Jean, QC (CYJN)	L-3
Montreal Center App/Dep Con 125.15 268.3	
Tower 118.2 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡)	
Gnd Con 121.7	
Sudbury, ON (CYSB)	H-31B, 10G, L-3
ATIS 127.4	
Toronto Center App/Dep Con 135.5	
MF 125.5 (7 NM to 4000')	
Summerside, PE (CYSU)	H-11E, L-3
AWOS 122.55 (Pvt)	
Moncton Center App/Dep Con 124.4 384.8	
Thunder Bay, ON (CYQT)	H-2J, L-1
ATIS 128.8 (1100-0400Z‡)	
Winnipeg Center App/Dep Con 132.125	
Tower 118.1 (1100-0400Z‡) Gnd Con 121.9 (1100-0400Z‡)	
App/Dep 119.2 MF 118.1 (0400-1100Z‡ 5 NM to 4000')	
Timmins/Victor M. Power, ON (CYTS)	H-1
ATIS 124.95 (1000-0500Z‡)	
Toronto Center App/Dep Con 128.3 MF 122.3 (5 NM to 4000')	
Toronto/Buttonville Muni, ON (CYKZ)	L-3
ATIS 127.1 (1200-0400Z‡)	
Toronto Trml App/Dep Con 133.4	
Tower 124.8 119.9 (1200-0400Z‡) Gnd Con 121.8 (1200-0400Z‡)	
MF 124.8 (0400–1200Z‡ No gnd station. 5 NM shape irregular to below 2500')	
Toronto/Billy Bishop Toronto City Airport, ON (CYTZ)	L=3
ATIS 133.6 (1130-0400Z‡)	
App/Dep Con 133.4	
Tower 118.2 119.2 (1130-0400Z‡) Gnd Con 121.7	
Toronto/Lester B Pearson Intl, ON (CYYZ)	H-11B, L-3
ATIS 120.825	
App Con 124.475 125.4 132.8 Dep Con 127.575 128.8	
Tower 118.35 118.7 Gnd Con 119.1 121.65 121.9	
Cinc Del 121.3 (1200-0400Z‡)	
Trenton, ON (CYTR)	H-11C, L-31E, 3
ATIS 135.45 257.7	
App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8	
Clnc Del 124.35 286.4	
Trenton/Mountain View, ON (CPZ3)	H-11C, L-31E, 3
Trenton Mil Advisory 268.0	
Trois-Rivieres, QC (CYRQ)	H-11C, L-3
Montreal Center App/Dep Con 128.225 229.2	
MF 123.0 (5 NM to 3200')	
Val-D'or, QC (CYVO)	H-1
Montreal Center App/Dep Con 125.9 308.3	11 1
MF 118.5 (1030–0325Z‡ 5 NM to 4000′)	
Vancouver Intl, BC (CYVR)	H-1B, L-
ATIO 404 0 404 75	11-15, L-

App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner)

Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 Gnd Con 121.7 (south) 127.15 (north) 275.8 Clnc Del 121.4

Dep Con 126.125 (north) 132.3 (south) 363.8

ATIS 124.6 124.75

SUPPLEMENTAL COMMUNICATION REFERENCE **FACILITY NAME** CHART & PANEL Victoria Intl. BC (CYYJ) H-1B, L-1E ATIS 118.8 (1400-0800Z‡) App Con 125.95 Dep Con 133.85 Tower 119.1 (Outer) 119.7 (Inner) 239.6 Gnd Con 121.9 361.4 (1400-0800Z± OT ctc Kamloops 119.7) Cinc Del 126.4 (1400-0800Z‡) Victoriaville, QC (CSR3) L-32H Montreal Center App Con 132.35 Waterville/Kings Co Muni. NS (CCW3) L-32J Greenwood Trml App/Dep Con 120.6 335.9 Greenwood Tower 119.5 324.3 Wiarton, ON (CYVV) H-11B. L-31D Toronto Center App/Dep Con 132.575 MF 122.2 (5 NM to 3700') H-10G, L-8J Windsor, ON (CYQG) ATIS 134.5 (1130-0330Z‡) Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2 Tower 124.7 (1130-0330Z‡) Gnd Con 121.7 (1130-0330Z‡) MF 124.7 (0330-1130Z‡ 6 NM irregular shape to below 3000') VFR Advisory Detroit App Con 134.3 Yarmouth, NS (CYQI) H-11E, L-32I Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100') MEXICO **CHART & PANEL** Abraham Gonzalez Intl (MMCS) H-4K, L-6F Juarez App Con 119.9 Juarez Tower 118.9 Del Norte Intl (MMAN) H-7B, L-20G ATIS 127.55 (1300-0300Z±) Monterrey App 119.75 120.4 Tower 118.6 Durango Intl (MMDO) H-7A ATIS 132.1 Tower 118.1 Durango Info 122.3 General Abelardo L Rodriguez Intl (MMTJ) H-4H, L-4H

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H-7B, L-20H

H-7B, L-20G

H-4H, L-4J, 5A

H-7C, L-21A

H-7B, L-20G

L-61

H-7B

H-7A

FACILITY NAME

ATIS 127.9

Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Tijuana Clnc Del 122.35 Tiiuana Info 132.1 General Lucio Blanco Intl (MMRX)

Reynosa App Con 118.8 Reynosa Tower 118.8 General Mariano Escobedo Intl (MMMY)

Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9 General R Fierro Villalobos Intl (MMCU) ATIS 127.9

General Rodolfo Sanchez Taboada Intl (MMML)

Chihuahua App Con 121.0 Chihuahua Tower 118.4 ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3

General Servando Canales Intl (MMMA) Plan De Guadalupe Intl (MMIO)

Matamoros App Con 118.0 Matamoros Tower 118.0 Saltillo App Con 127.4 Saltillo Tower 118.4 Quetzalcoati Inti/Nuevo Laredo Inti (MMNL)

Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3 Torreon Intl (MMTC) App Con 119.6 Tower 118.5

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AIRPORT DIAGRAMS

In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city ar airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in groun taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedure Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current that the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

GENERAL INFORMATION

PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

- 1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., 🚳, 👁 😥 2. Approach lighting systems that do not bear a system identification are indicated with a negative "①" beside the name
- A star (*) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., 📭 To activate lights use frequency indicated in the communication section of the chart with a $m{0}$ or the appropriate

lighting system identification e.g., UNICOM 122.8 0, 🚳, 👁

KEY	MIKE

7 times within 5 seconds

5 times within 5 seconds 3 times within 5 seconds

FUNCTION

Highest intensity available

Medium or lower intensity (Lower REIL or REIL-off) Lowest intensity available (Lower REIL or REIL-off)

CHART CURRENCY INFORMATION

-Amdt 11A 99365 Date of latest change FAA procedure amendment number—

The Chart Date indentifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

MISCELLANEOUS

- Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- Indicates control tower temporarily closed UFN.

10210 IFGFND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

Runways			
Hard Surface	Other Than Hard Surface	Stopways,Taxiwo Parking Areas, Water Runways	ys, Displaced Threshold
× × Closed Runway	××× Closed Taxiway	 Under Construction	Metal Surface
e.g., BAI not appli	<12, MA-1A etc	cific arresting gear , shown on airpo ilots. Military Pilot: ations.	rt diagrams,
uni-d	irectional	bi-directional	} Jet Barrier
ARRESTING	G SYSTEM		
REFERENC	E FEATURES		
Tanks Obstruction Airport Be Runway	nsacon #		A

When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR. Runway length depicted is the physical length of

Hot Spot

Control Tower #.....

the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A D symbol is shown to indicate runway declared distance information available, see appropriate A/FD, Alaska or Pacific Supplement for distance information. Helicopter Alighting Areas (H) [H] (A) [H]

Negative Symbols used to identify Copter Procedures landing point.....

Runway Threshold elevation.....THRE 123 Runway TDZ elevation.....TDZE 123 -0.3% DOWN

.....0.8% UP-

(shown when runway slope is greater than or equal to 0.3%) Runway Slope measured to midpoint on runways

8000 feet or longer. U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of

approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft. Approach light symbols are shown in the

Flight Information Handbook.

Airport diagram scales are variable.

True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or ½ minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

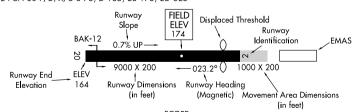
Positional accuracy within ±600 feet unless otherwise noted on the chart.

NOTE:

All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in FLIP. (Foreign Only)

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression.

Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 PCN 80 F/D/X/U S-75, D-185, 2S-175, 2D-325



SCOPE

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

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been reduced or eliminated.

CITY/AIRPORT

ALTON/ST. LOUIS ST. LOUIS RGNL (ALN)

CHAMPAIGN-URBANA

(CMI)

CHICAGO

CHICAGO

MIDWAY INTL (MDW)

UNIVERSITY OF ILLINOIS-WILLARD

CHICAGO-O'HARE INTL (ORD)

AIRPORT DIAGRAMS

HOT SPOTS An "Airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness and training. Hot spots are depicted

SIONILII

on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a

HOT SPOT

HS 1

HS 2

HS₁

HS 2

HS 3

HS 1

HS₂

HS 3

HS 4

HS 5

HS 6

HS 7

HS 8

HS 9

HS 10

HS 11

HS₁

HS₂

HS 3

HS 4

HS 5

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runway incursion, and where heightened attention by pilots/drivers is necessary.

DESCRIPTION

Twv C

the Twv A.

C. and Twv D.

09R-27I

active rwys.

Rwy 27R thld.

terminal side

brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has

Twy C and Rwy 11, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering the

Twy A and Rwy 17-35, rwy in close proximity of ramp. Be prepared to hold short of the rwy entering

Complex intersection of Twy A, Twy A1, Twy B, Twy

Taxiing tfc on Twy R cannot stop on Twy R between

Rwv 36 hold short lines on Twv B, and Twv B2 proximity to Twy B/Twy B2 intersection.

Rwv 27L arrivals prohibited from turning onto Rwy 04L-22R without ATC clearance.

Acft northeast bound on Twy B turning right onto Twv H use caution - close proximity to Rwy

Ldg Rwy 22R tfc must receive clearance to cross

Rwy 14L arrivals exiting Twy U5 use caution - close

Acft northwest bound on Twy U turning left onto Twy H use caution - close proximity to Rwy 09R-27L.

Acft turning left onto Twy K from Twy T10 use caution to avoid inadvertent turn onto Twy M.

Twy S5 - north bound tfc only exiting Rwy 04R.

Ldg Rwy 27R first avbl turn off is Twy C1 6500' for

Rwy 14R shortened, LDA 8650'. Use caution. Rwy 14R now ends north of active Rwv 10-28. Rwv 10-28 arrivals use caution, make no turns at this

Taxiing to Rwy O4L from Twy W. Note: dsplcd thld

Intersection of Rwy O4L and Twy F. Rwy O4L may be

Hold short line for Rwy 31L immediately after Twy F

Rwy 31R hold short line set back 200 feet on Twy Y

Intersection of Rwy 04R and Twy F. Rwy 04R may be active whenever Rwy 31C is also active.

Tfc inbound to the terminals from Twv G and Twy E can expect a right turn on Twy Z to avoid

intersection, unusable pavement.

and unique turn onto Rwy 04L.

and Twy K intersection, on Twy K.

active whenever Rwy 31C is also active.

Rwy 09R-27L and Rwy 04L-22R.

Rwv 09R-27L on Twv A1.

proximity to Rwy 09R-27L.

Rwv 18 hold short line set back on Twv C.

AIRPORT DIAGRAMS

QUAD CITY INTL (MLI) SPRINGFIELD ABRAHAM LINCOLN CAPITAL (SPI)

HS₁

HS₁

HS 1

HS₂

HS 3

HS 4

HS 5

HS₂ HS 3

HS₁

HS 2

HS 3

HS 1

HS 2

HS₁

HS₂

HS₁

HS 2

HS 3

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HS 4

INDIANA

MICHIGAN

Ramp-use appropriate vigilance.

Rwv 27 without a clearance.

clearance.

No signage.

risk.

short of rwv.

short of rwy.

Complex rwy/rwy intersection. ATC approval required to exit onto another rwy. Aviation Ramp-use appropriate vigilance.

Ramp-use appropriate vigilance.

Complex rwvs/twv intersection.

Caution confusing signage.

serve both Rwy 05 and Rwy 09.

When taxiing on Rwy 09L-27R, be prepared to hold at the holding position markings on the rwy.

Intersection of Rwy 09L-27R and Rwy 03L-21R. When taxiing on Rwy 09L-27R, be prepared to hold at the holding position markings on the rwy.

Twy F and Rwy 03L-21R - pilots taxiing on Twy F sometimes enter Rwy 03L-21R without a

Twy E1 to Rwy 27 or Rwy 23L wrong rwy departure

Complex intersection of Rwy 05, Twy A and Twy D.

Wrong rwy departure risk. Acft departing Rwy 05 car expect to hold short of Rwy 09 on Twy F.

Wrong rwy departure risk. Twy C hold short lines

Twy tfc to hold short of Rwy 23/Rwy 23 apch.

Intersection of all rwys, wrong rwy departure risk.

NSTD Rwv 13-31 hold position, distance to edge of

Rwy 13-31 hold position at Twy H. Twy tfc to hold

Rwy 05-23 hold position at Twy L. Twy tfc to hold

Pilots taxiing to Rwy 09 enter the rwy mid-field. Do not taxi to the "numbers" without ATC clearance. Rwv 09-27 is a short distance from the General Pilots cleared to taxi to Rwv 27 sometimes enter Rwy 18-36 in close proximity to General Aviation

Rwv 18-36 in close proximity to General Aviation Intersection of Rwy 09L-27R and Rwy 04R-22L.

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DETROIT

DETROIT

EVANSVILLE

EVANSVILLE RGNL (EVV)

DETROIT METROPOLITAN WAYNE CO (DTW)

JACKSON CO-REYNOLDS FLD (JXN)

KALAMAZOO/BATTLE CREEK INTL

WILLOW RUN (YIP)

JACKSON

ΚΔΙ ΔΜΔΖΩΩ

(AZO)

42b	AIRPURI DIAGRAMS		
	OHIO		
AKRON			
AKRON-CANTON RGNL (CAK)	HS 1	ILS hold short line close proximity to transient parking ramp.	
	HS 2	Twy C rwy holding position marking east of Rwy 01–19 used to hold acft for both Rwy 01–19 and Rwy 05–23.	
	HS 3	Hold short lines on Twy K between Rwy 01–19 and Rwy 05–23 are nearly co-located.	
CINCINNATI			
CINCINNATI MUNI AIRPORT-LUNKEN FIELD (LUK)	HS 1	Tfc on Twy C must receive ATC clearance to cross Rwy 03L apch area.	
	HS 2	Twy A crosses Rwy 21R. Be prepared to hold short.	
	HS 3	Departing acft on Rwy 21L can expect to hold short of Rwy 25 on Twy A.	
	HS 4	Pedestrians and vehicles prohibited from departing terminal ramp area without ATC authorization.	
CLEVELAND			
CLEVELAND-HOPKINS INTL (CLE)	HS 1	Complex intersection of Rwy 06R-24L and Twy S, Twy L.	
	HS 2	Complex intersection of Rwy 06R-24L and Twy R, Twy L.	
COLUMBUS			
OHIO STATE UNIVERSITY (OSU)	HS 1	When holding short of Rwy 09R, acft must clear Rwy	

COLUMBUS

JANESVILLE

LA CROSSE

MILWAUKEE

LA CROSSE MUNI (LSE)

GENERAL MITCHELL INTL (MKE)

YOUNGSTOWN-WARREN

HS₂

HS 3 HS A HS₁

PORT COLUMBUS INTL (CMH) YOUNGSTOWN-WARREN RGNL (YNG)

HS₂ HS 3 HS₁ HS 2

SOUTHERN WISCONSIN RGNL (JVL)

HS₁

HS₁

HS₁

HS₂

WISCONSIN

Rwy 36 hold position set back on Twy F.

departure.

Pilots taxiing northbound on Twy E for an intersection departure on Rwy 19R at Twy V can end up entering Rwy 07L-25R if they miss the right turn for Twy V. To avoid a rwy incursion, pilots on Twy E should use extreme caution approaching Rwy 07L-25R.

05 hold short line on Twy A, west of Rwy 05.

on Twv A.

hold short lines on Twy D.

position markings.

Rwy 05 hold short line close proximity to west ramp

Wrong rwy departure risk: Rwy 32 is not visible from

Successive hold short lines on Twy A east of Twy D define Rwy 32 apch zone. Pilots confuse the apch hold markings with the Rwy 27L rwy holding

Acft taxiing to the full length of Rwy 28L along Twy C expect to turn left on Twy F and join Twy D.

Rwy 23 hold short line and signage on Twy H may

be difficult to see when taxiing to Rwy 23 on Twy J.

Complex Twy K/Twy F intersection. Twy K crosses

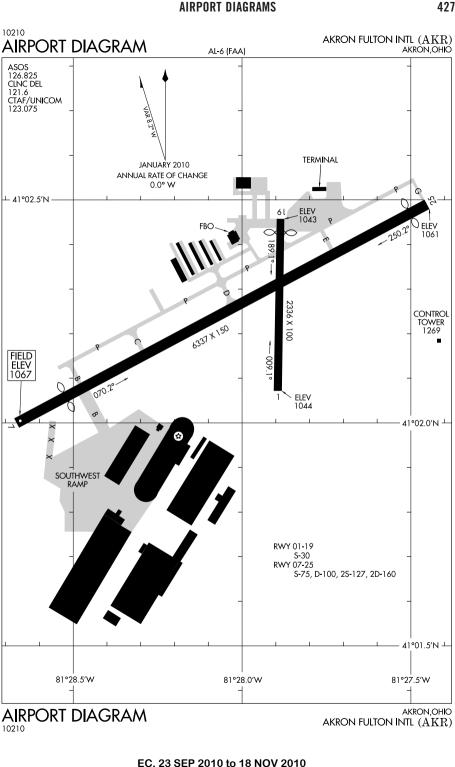
Rwy 32 and Rwy 26 approach ends are closely aligned and may be confused when lining up for

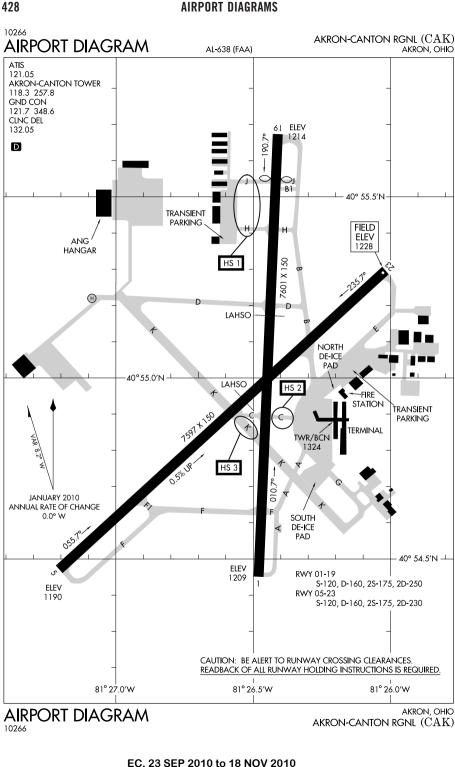
Acft exiting Rwy 10R at Twy G, complex intersection, acute angle to Terminal.

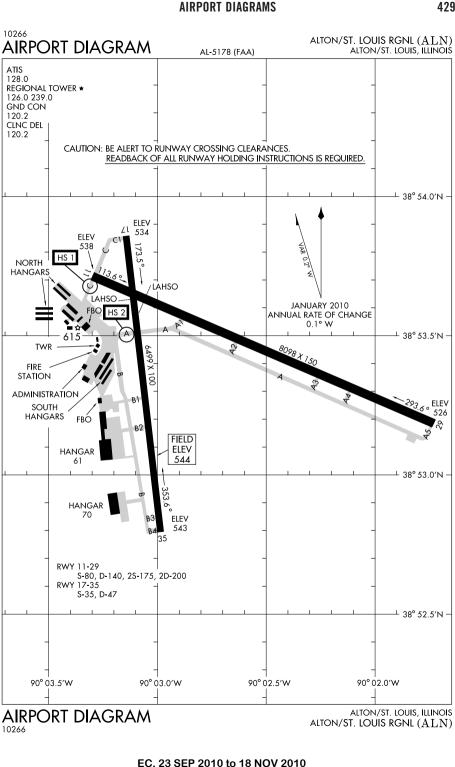
Area not visible from the twr.

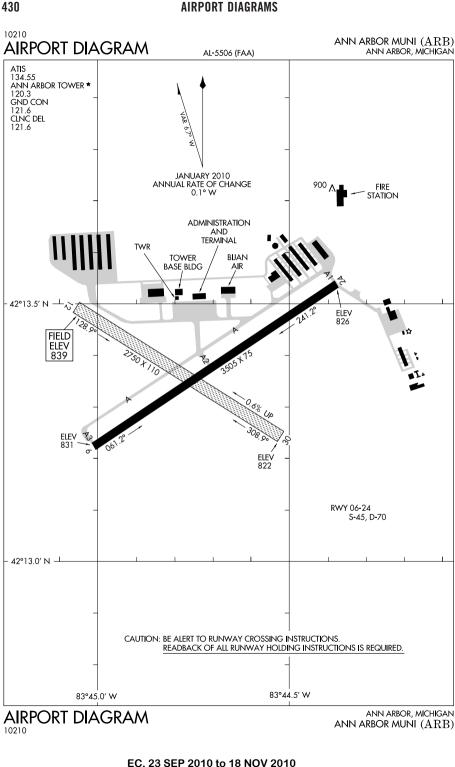
Twy F to the terminal.

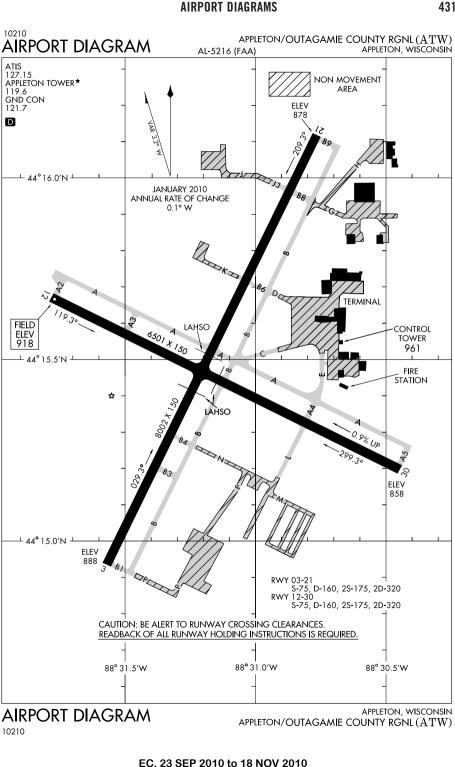
Use caution in the area of Twy M and Rwy 01L-19R. Pavement widens out as the twy approaches the rwy and may cause confusion.

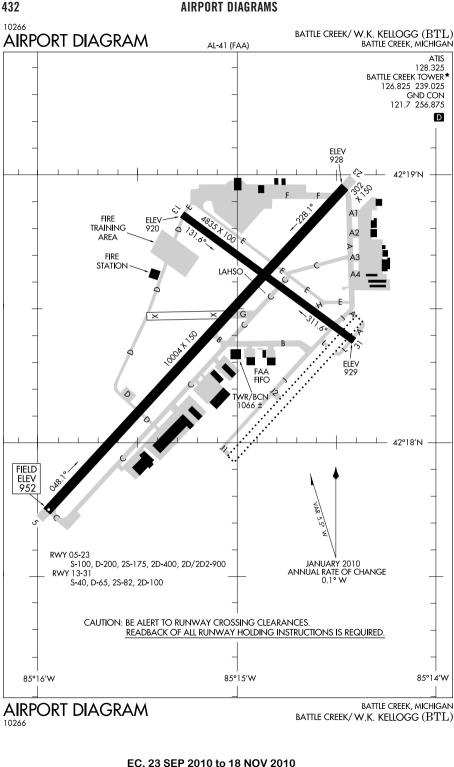


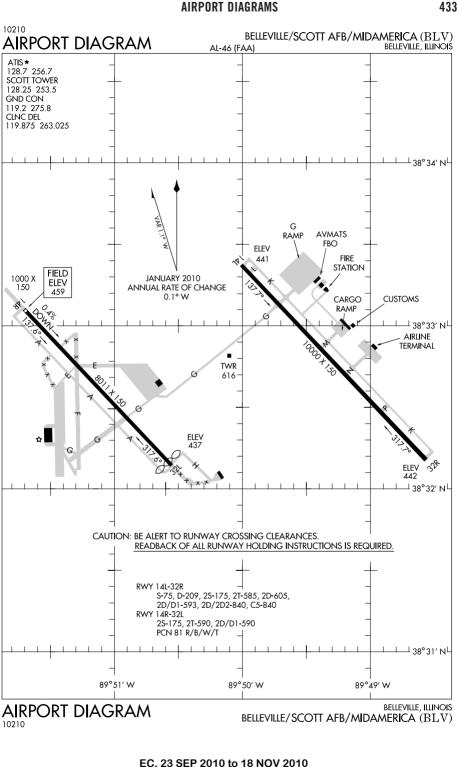


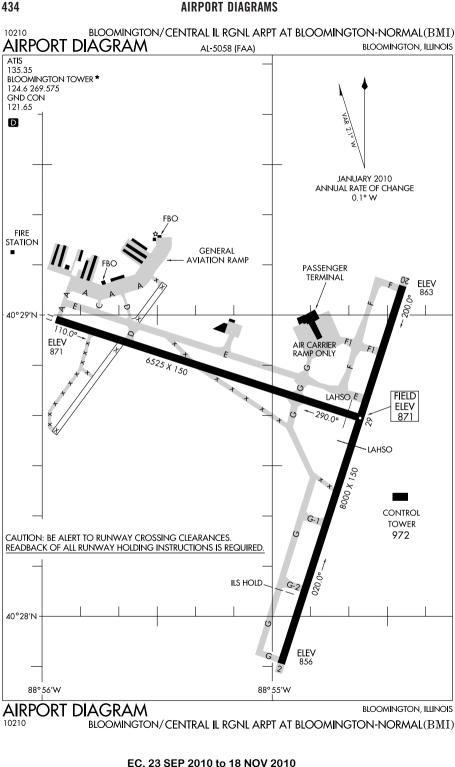


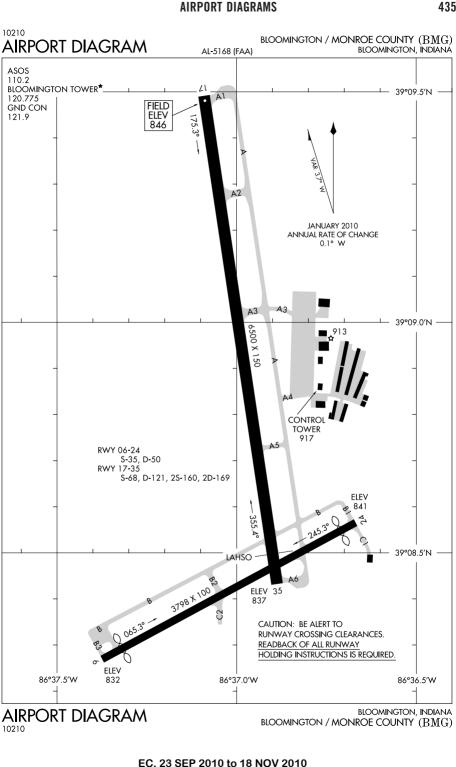


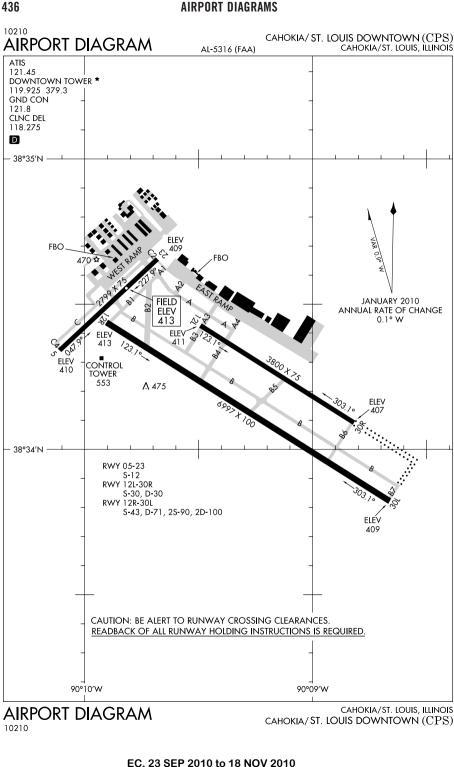


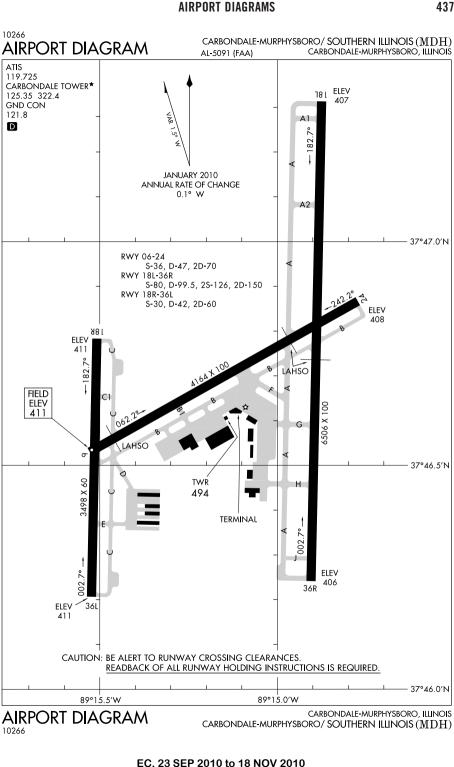


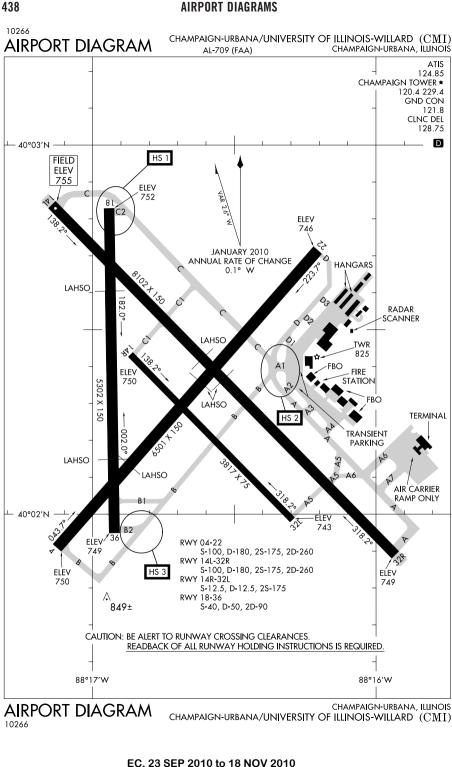


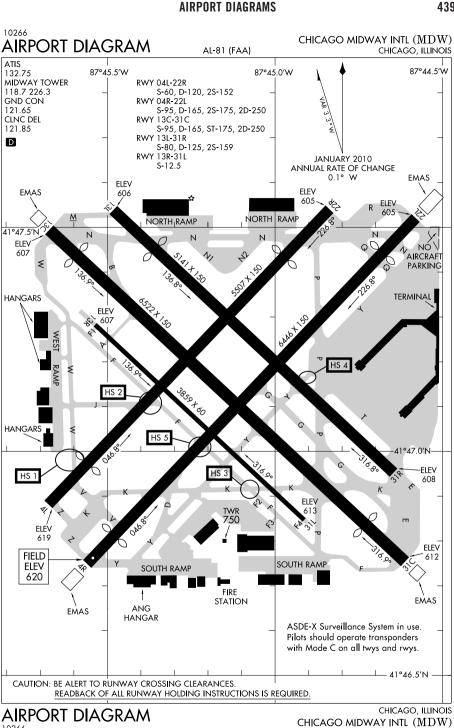




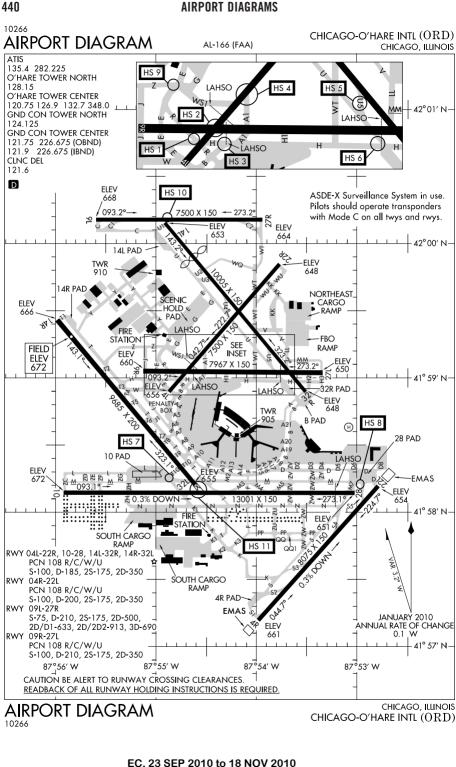


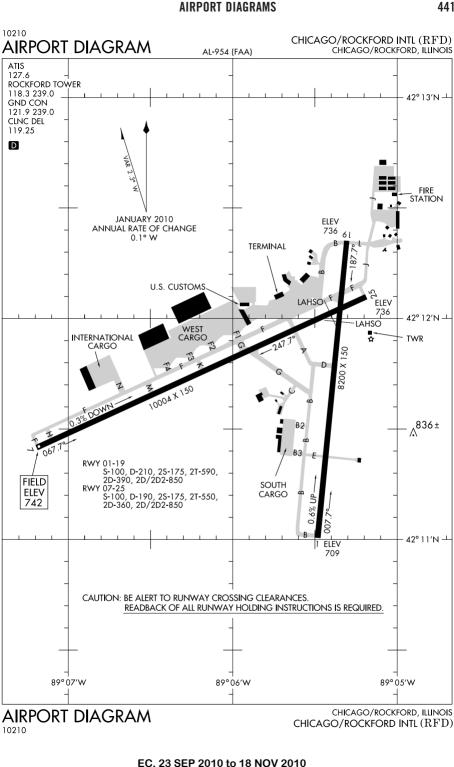


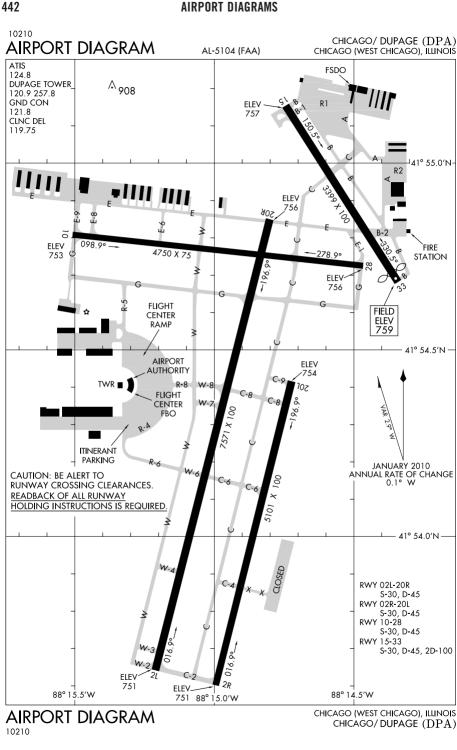




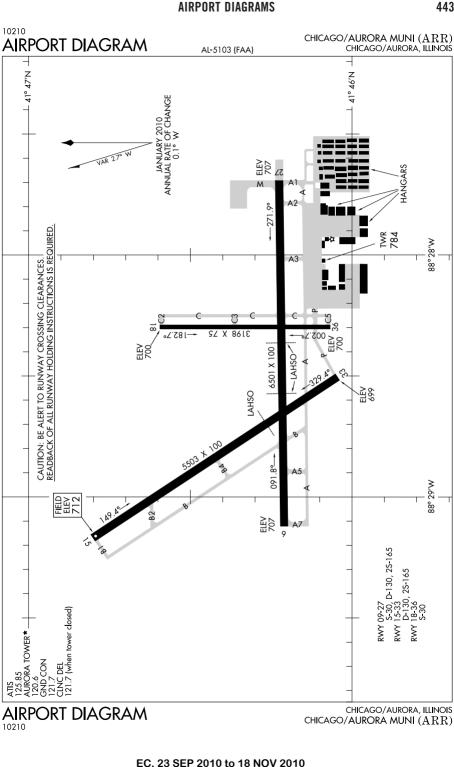
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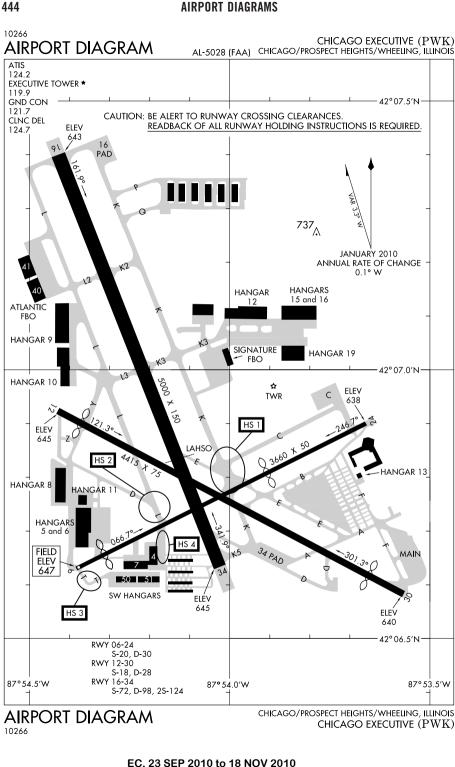


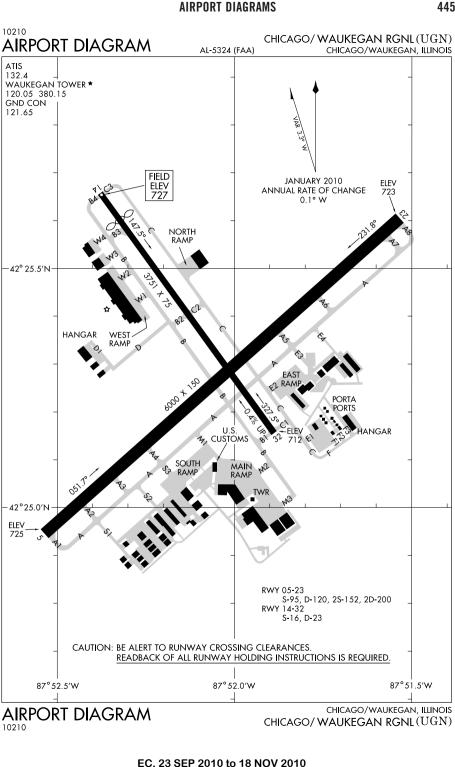


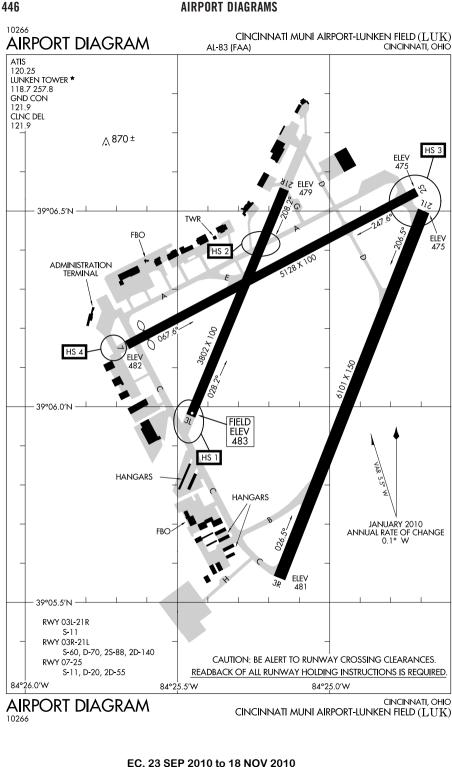


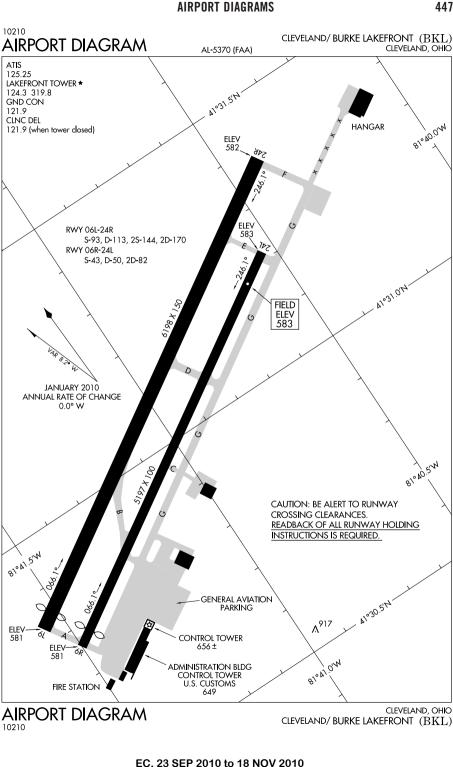
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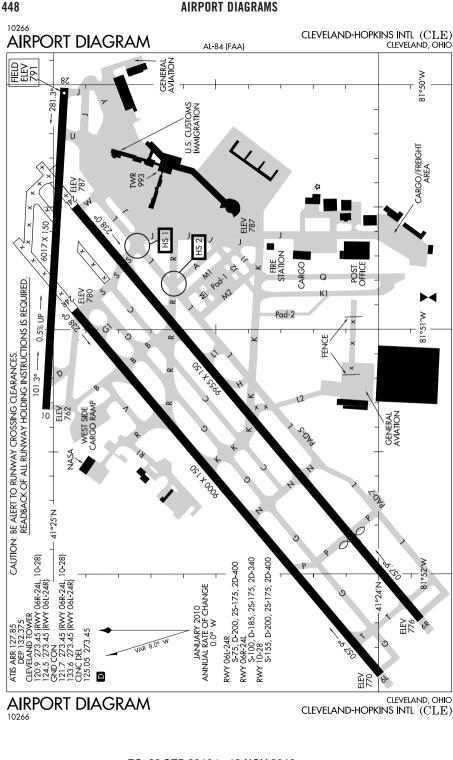




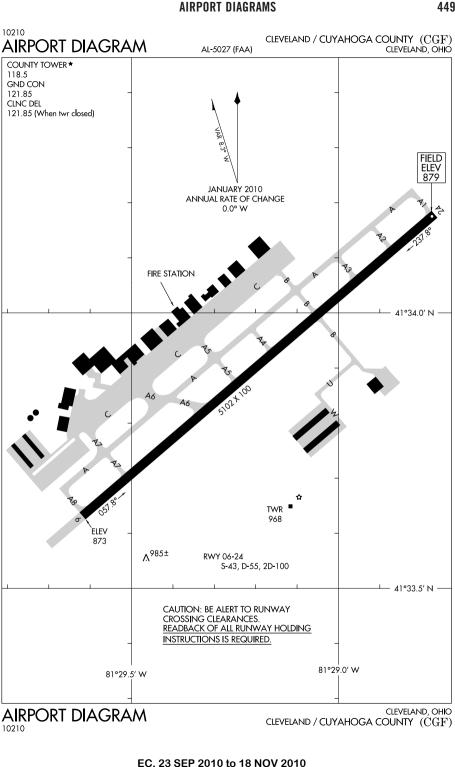


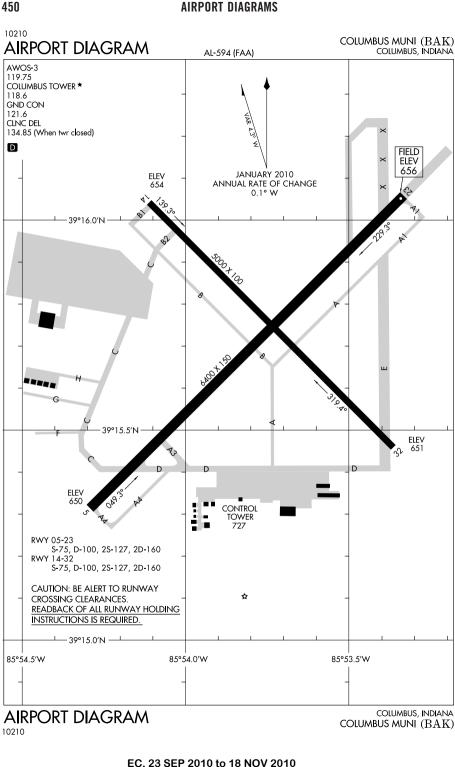


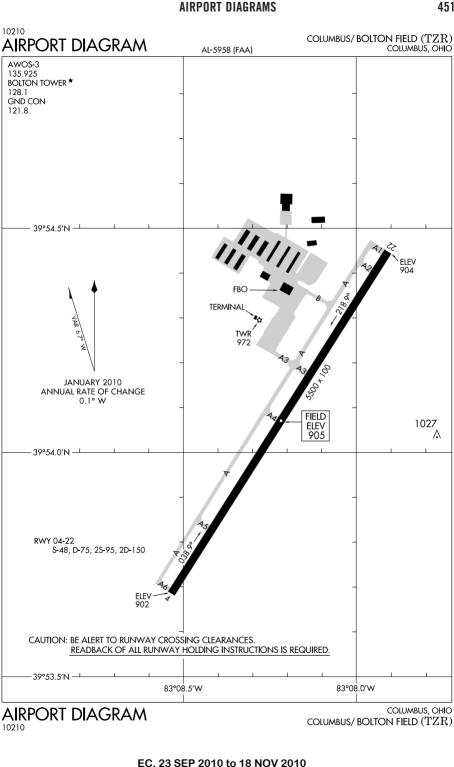


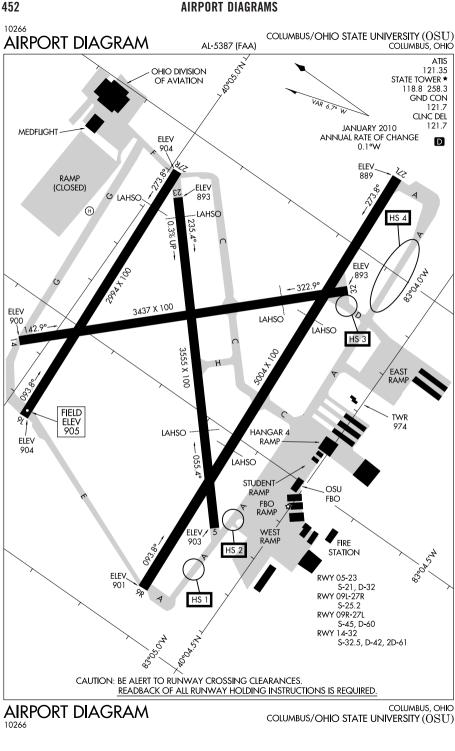


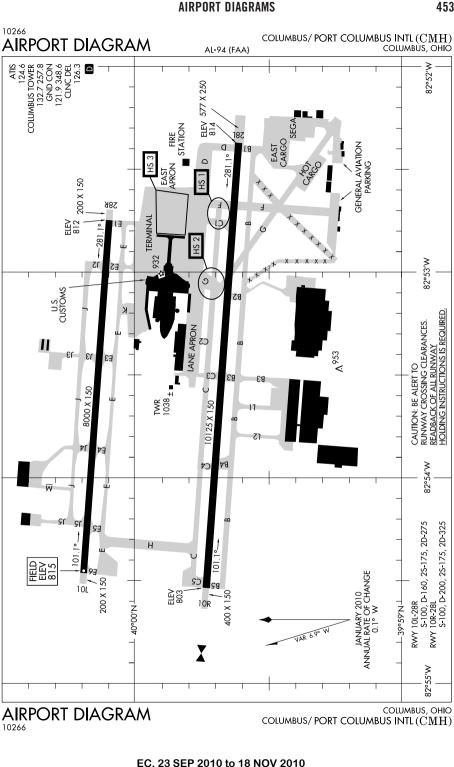
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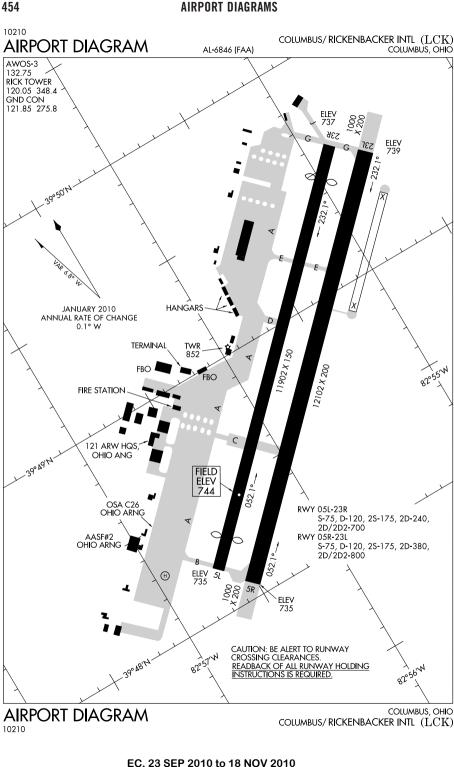


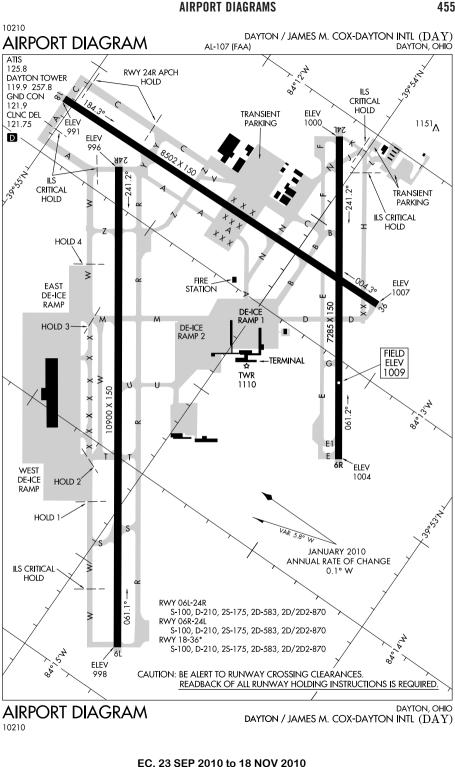


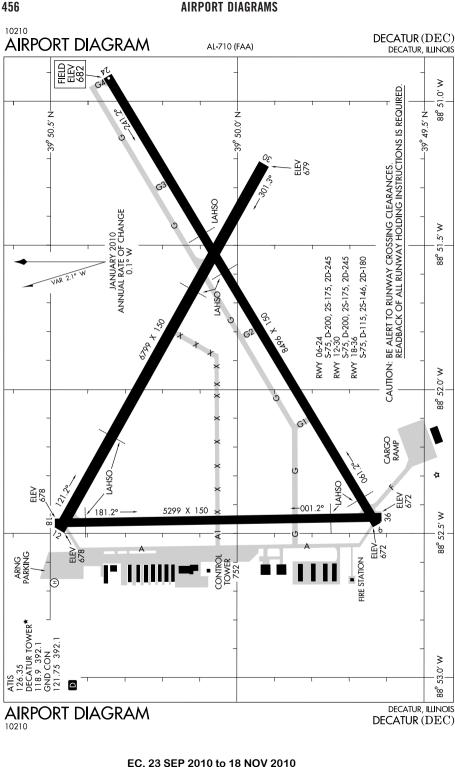


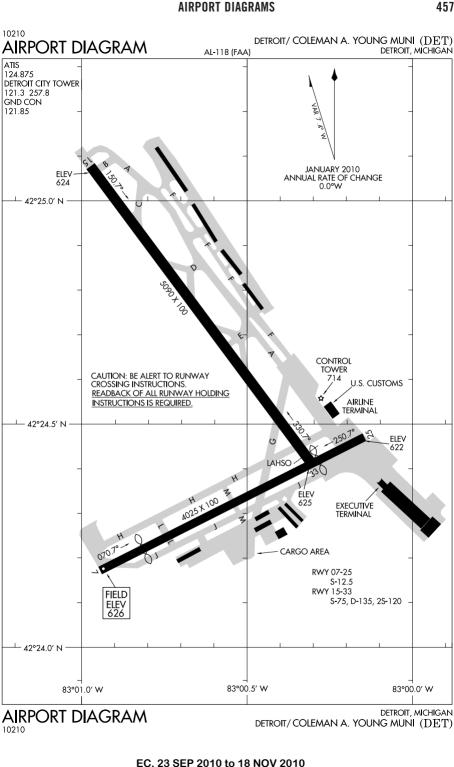


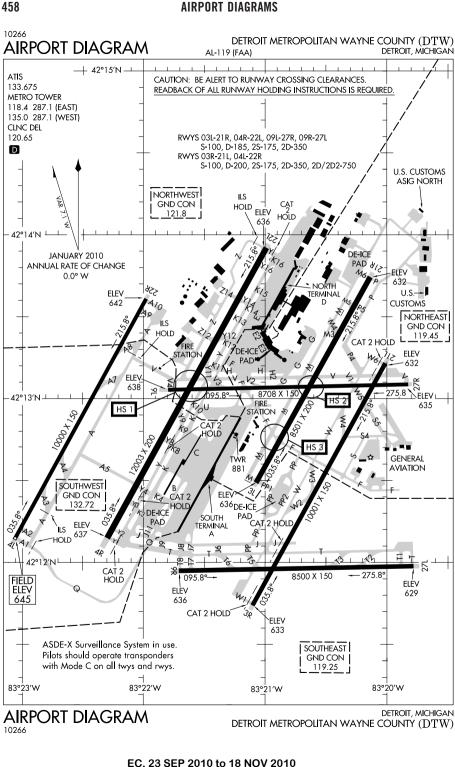


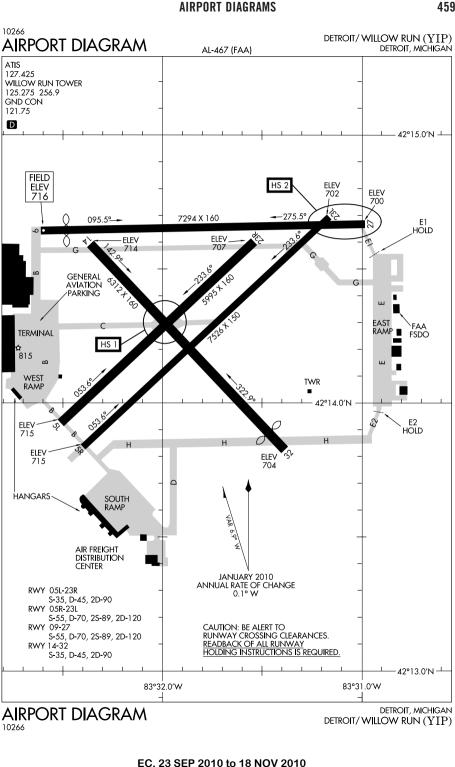


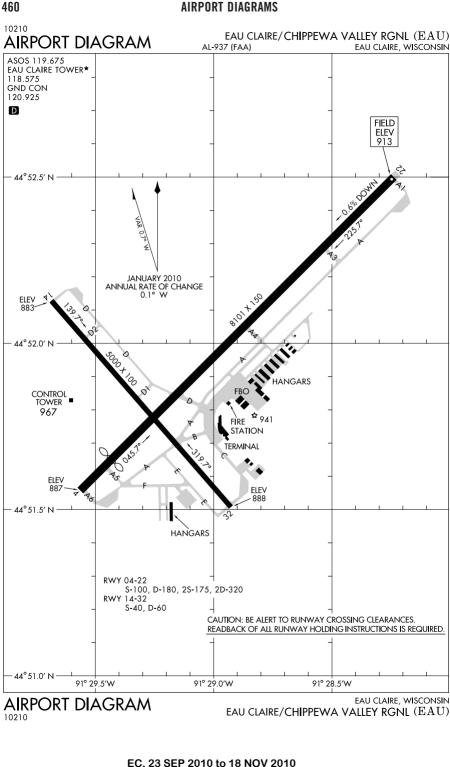


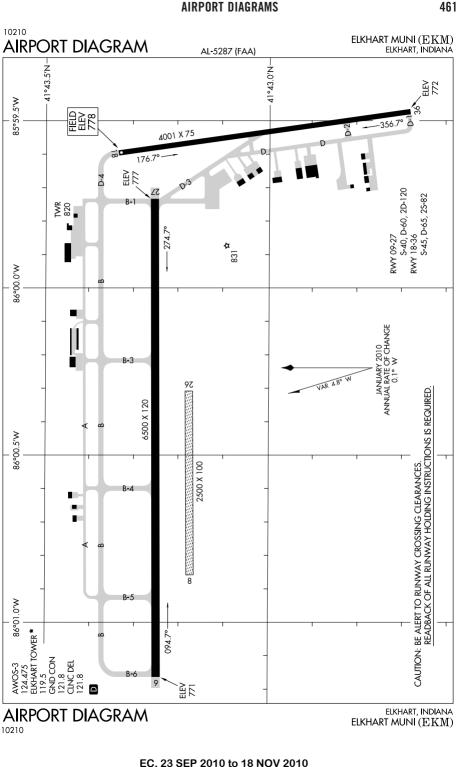


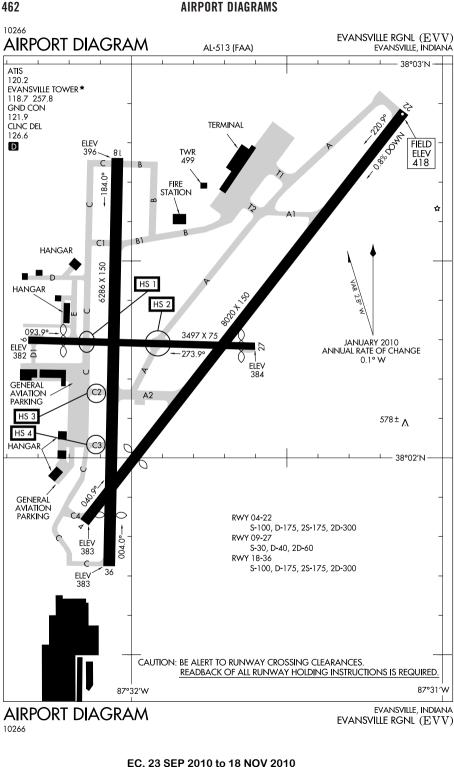


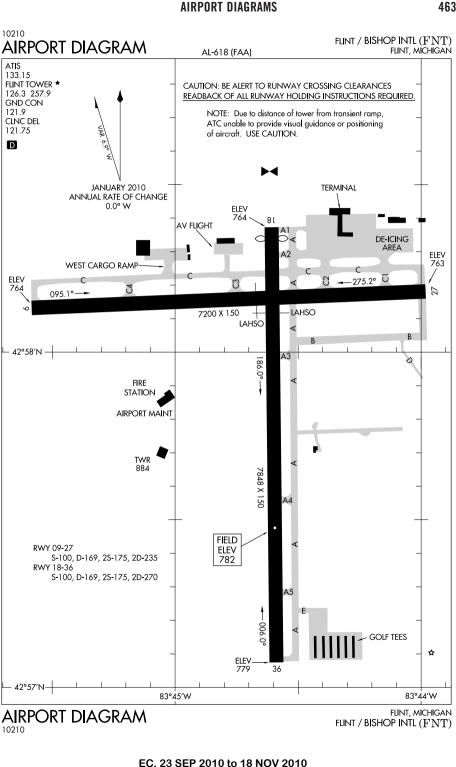


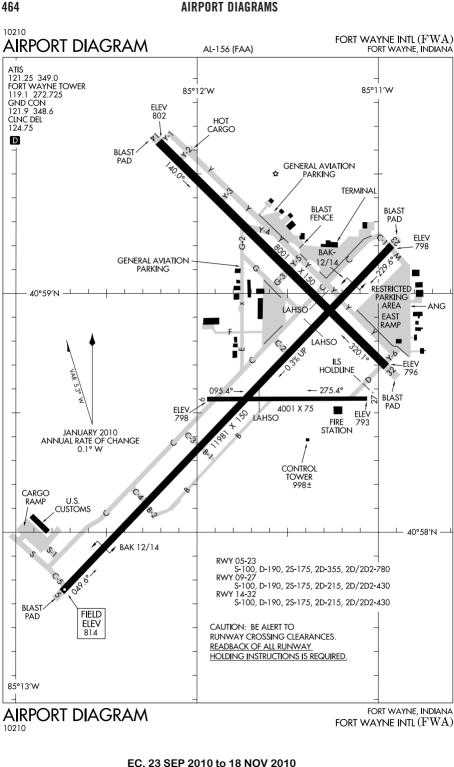


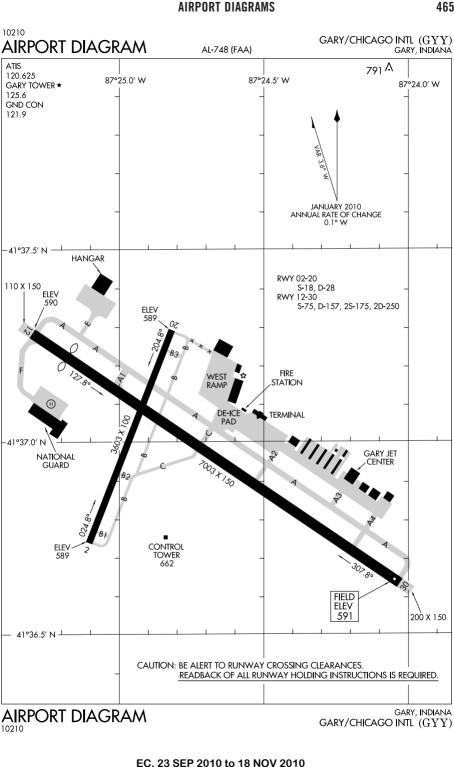


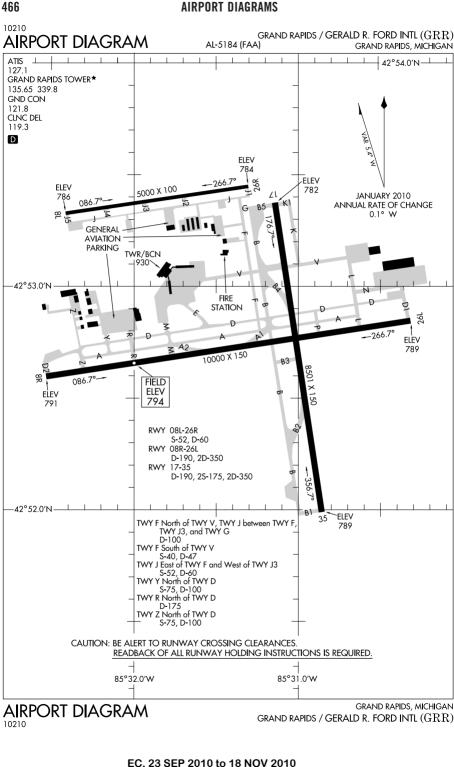


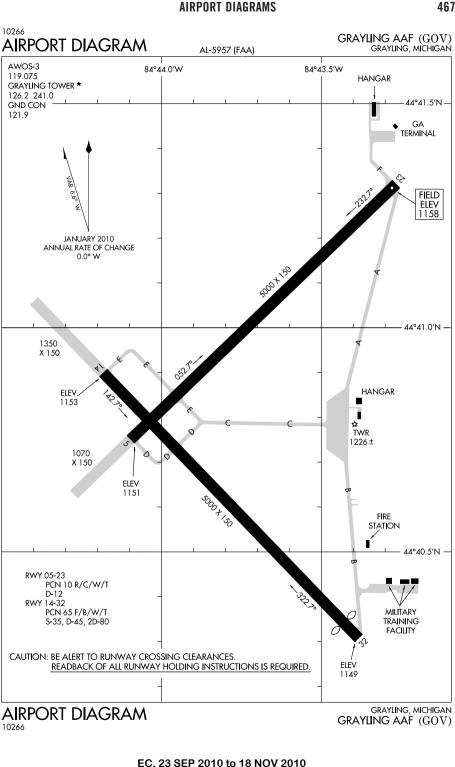


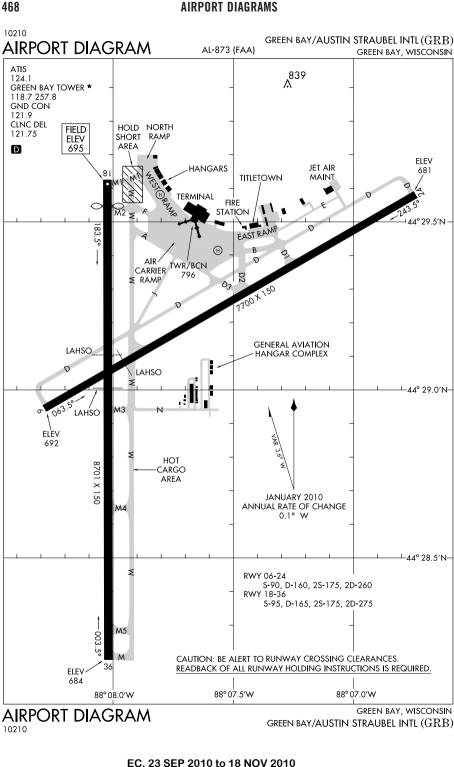


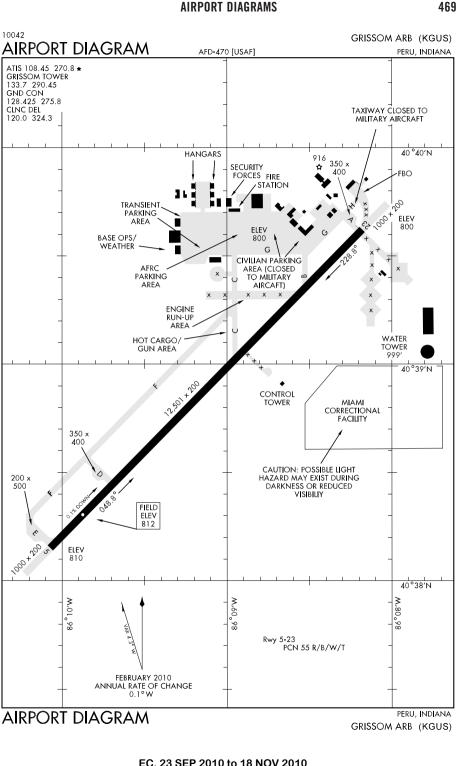




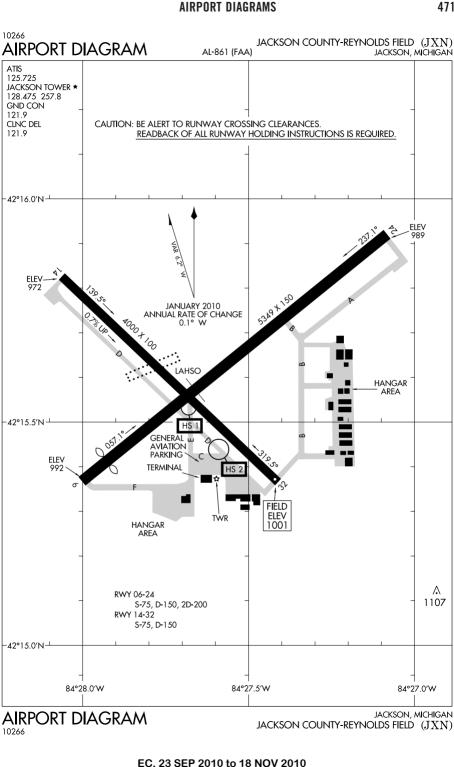


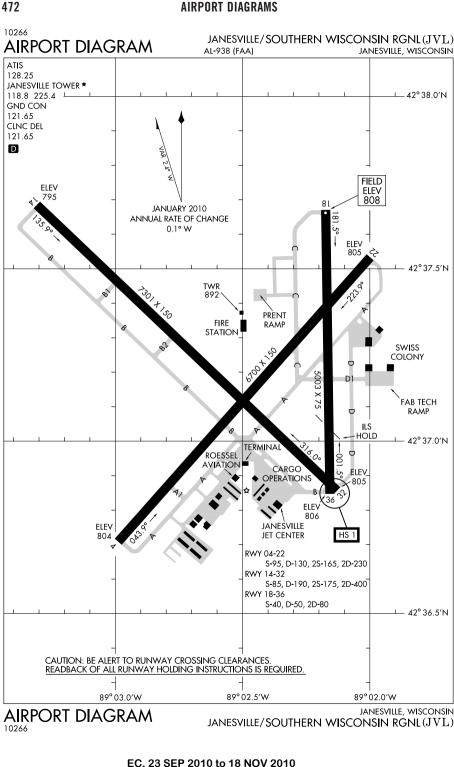


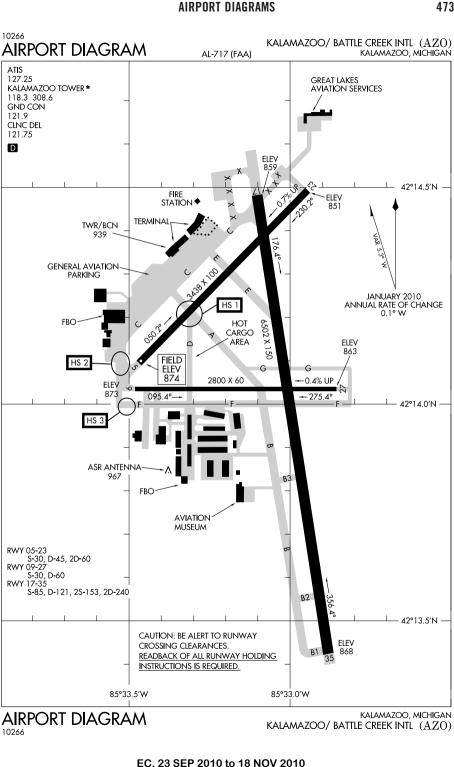


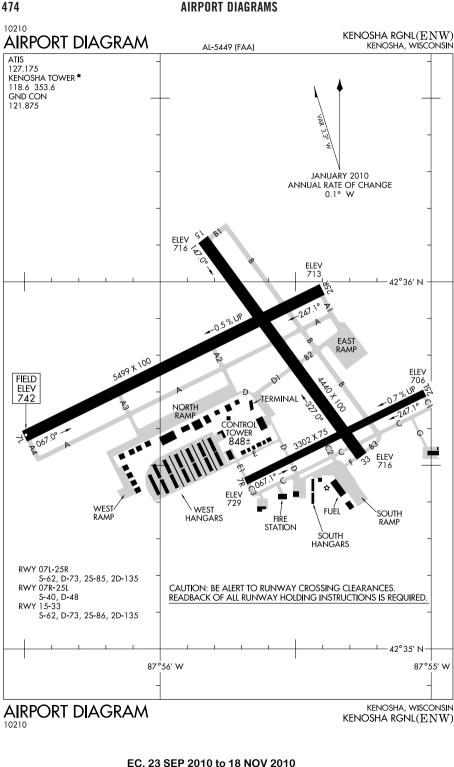


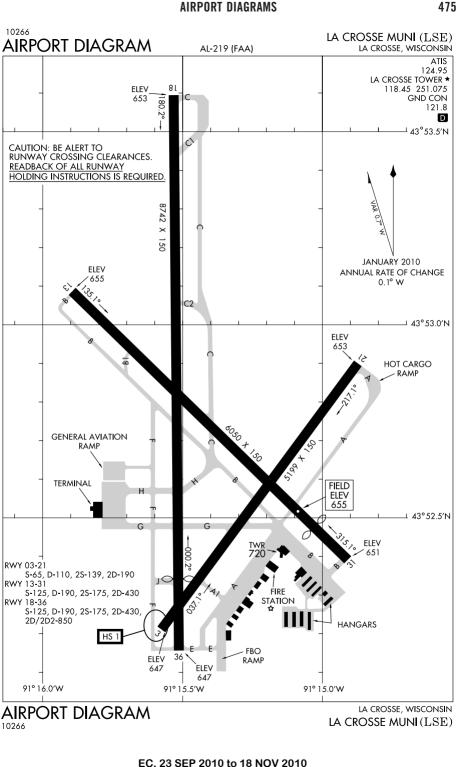
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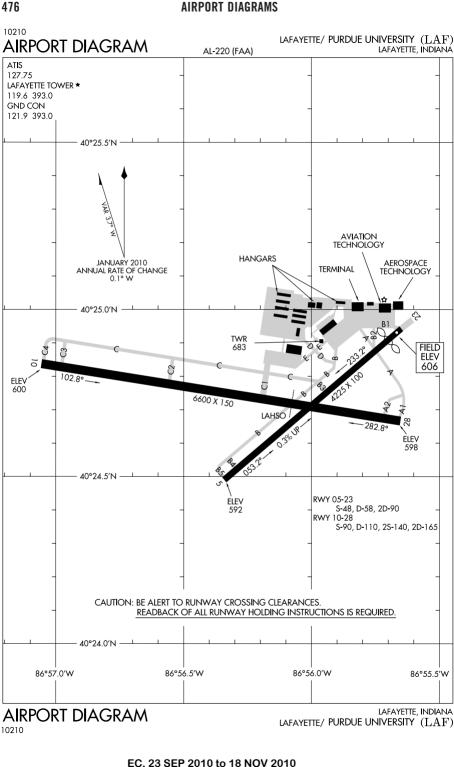


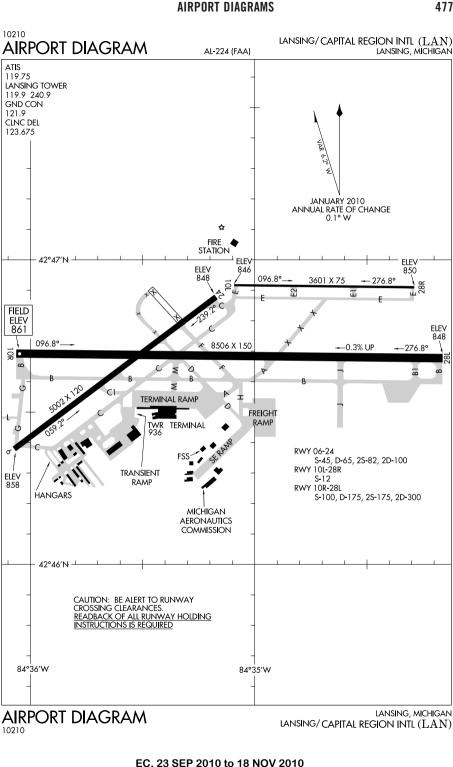


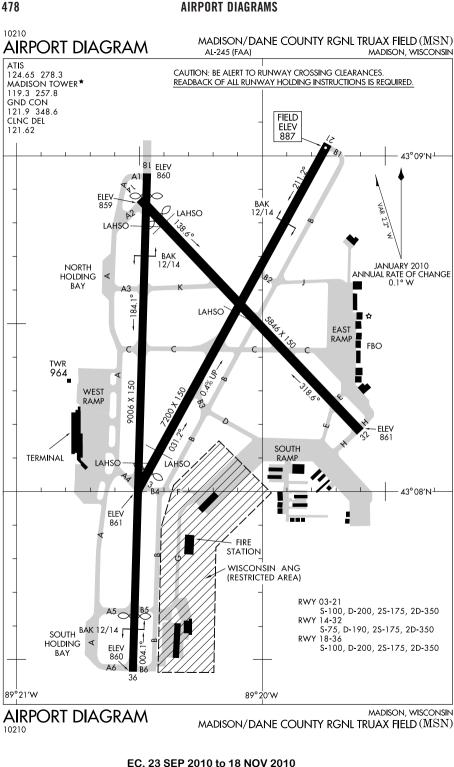


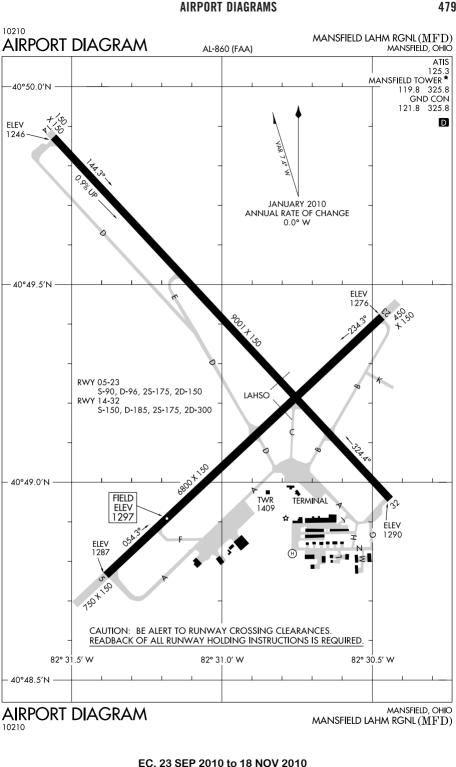


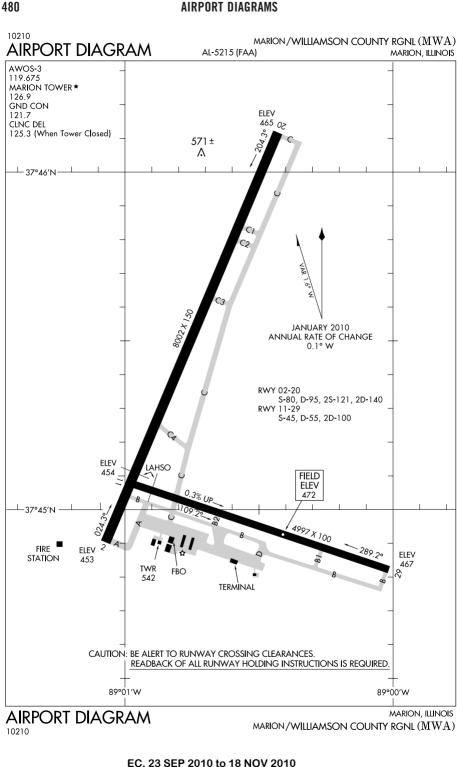


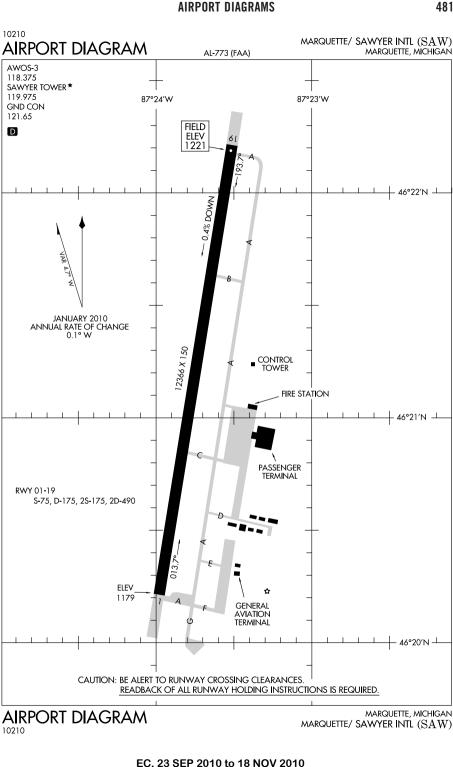


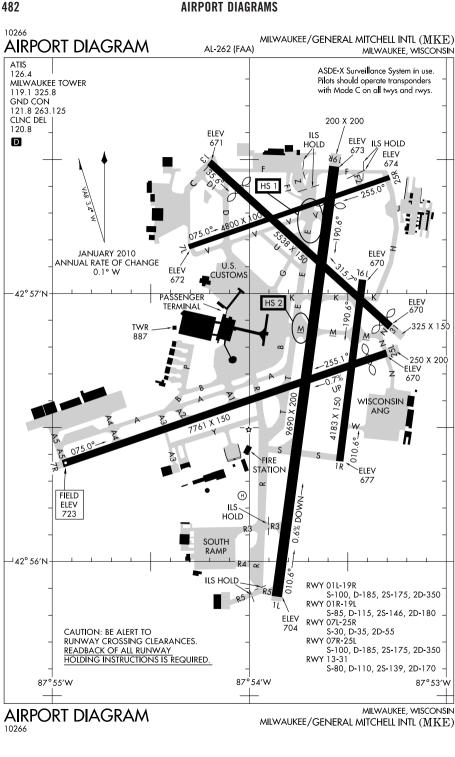




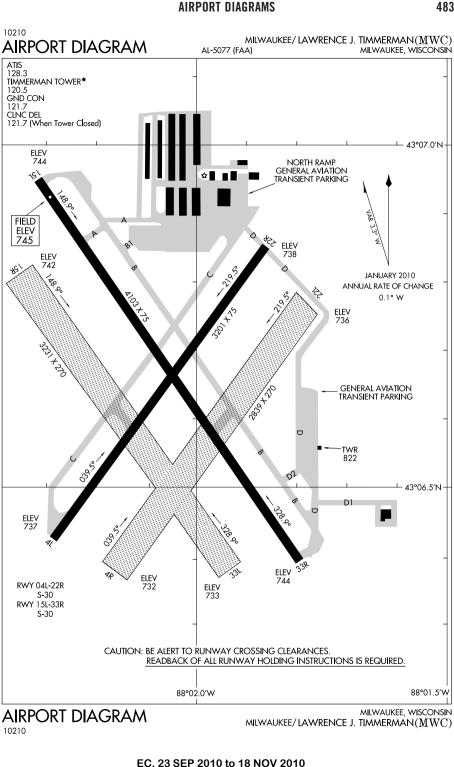


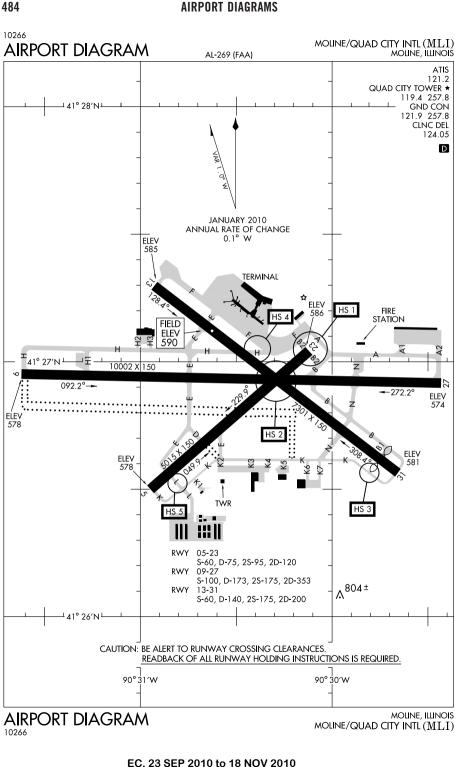


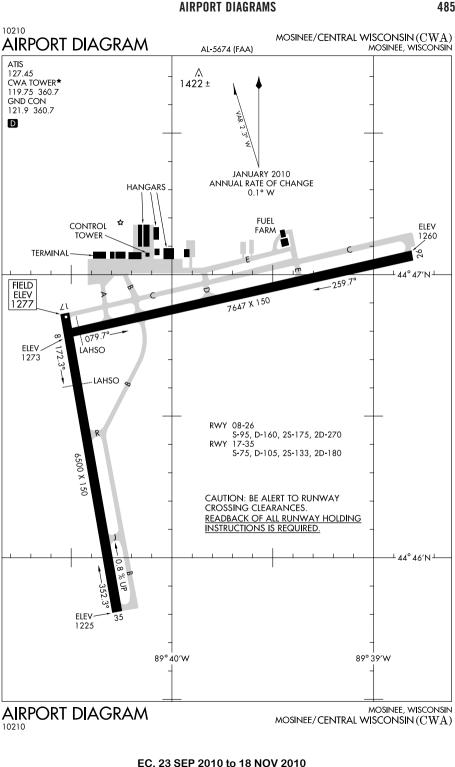


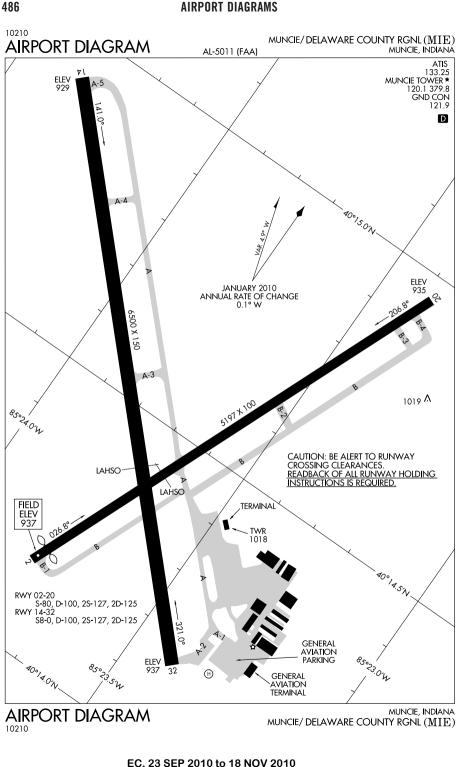


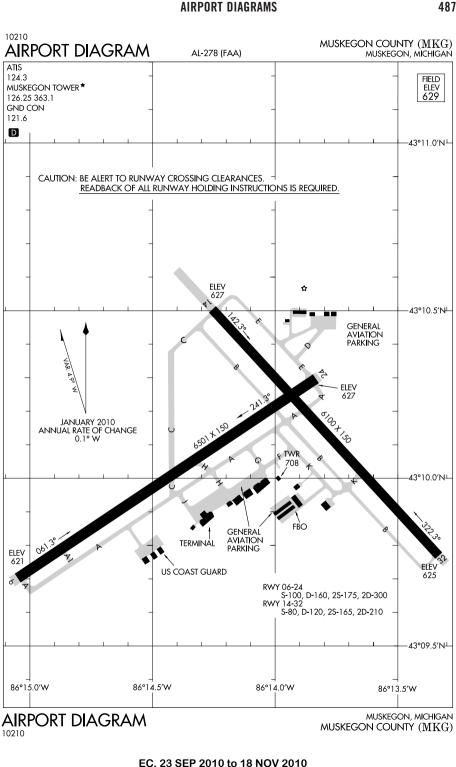
EC. 23 SEP 2010 to 18 NOV 2010

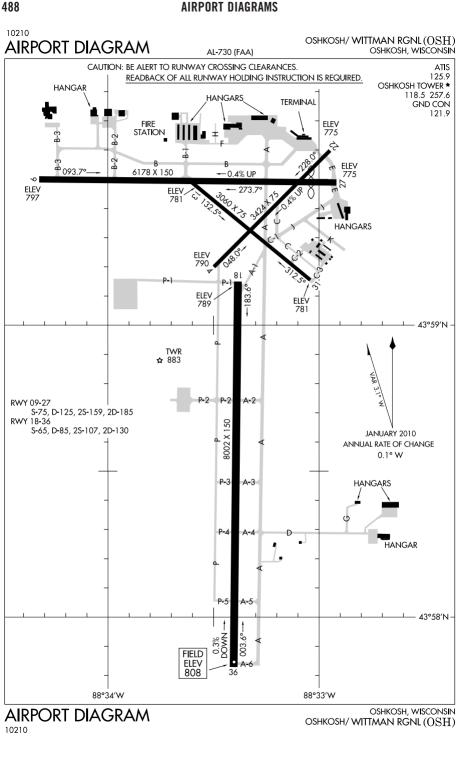




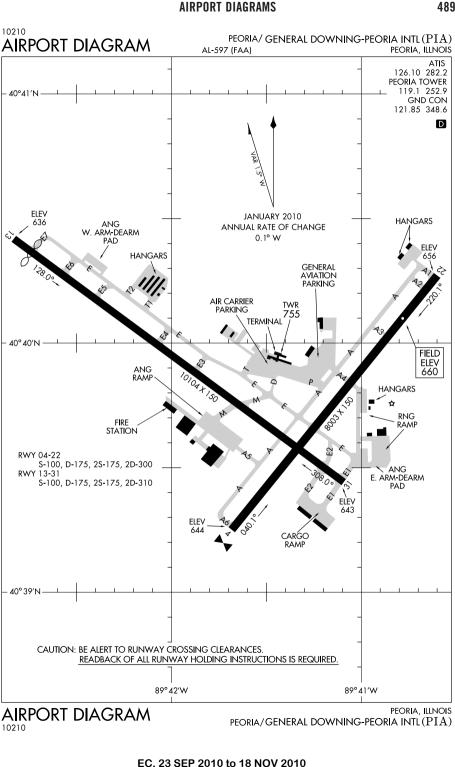


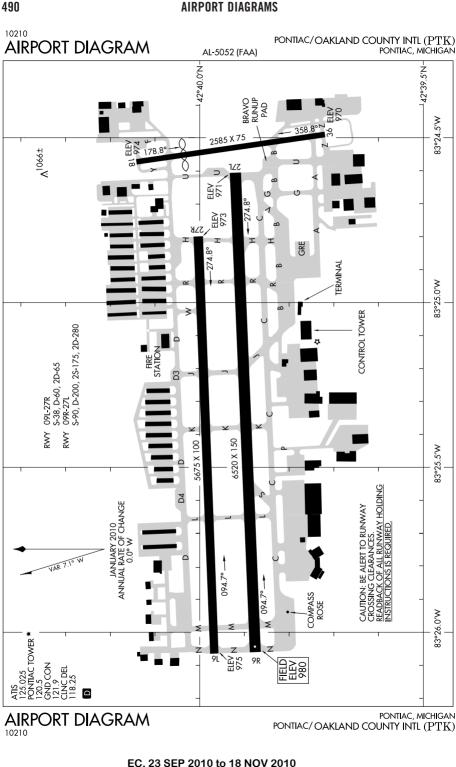


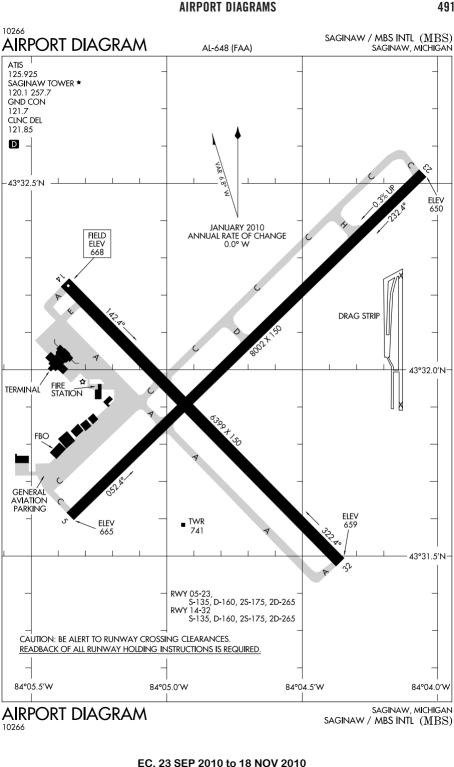


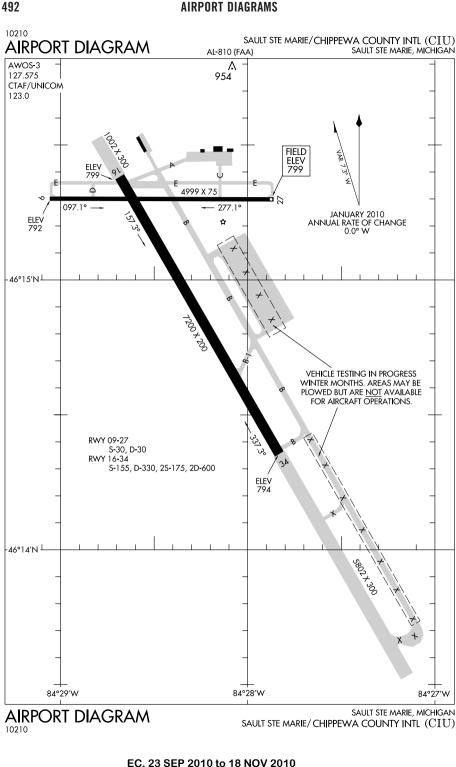


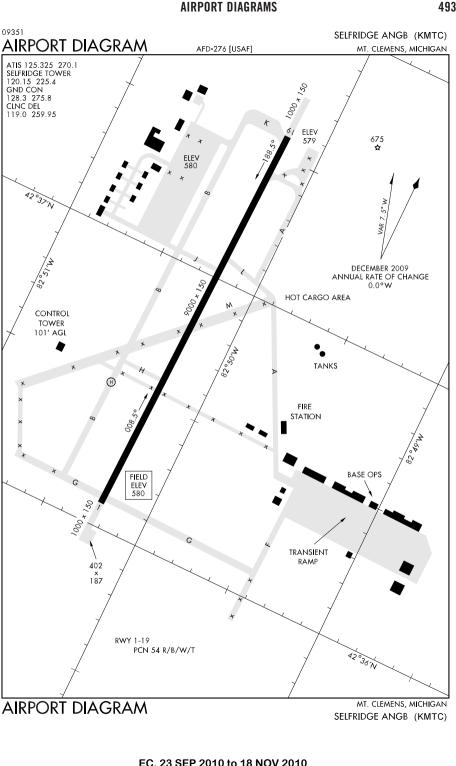
EC. 23 SEP 2010 to 18 NOV 2010

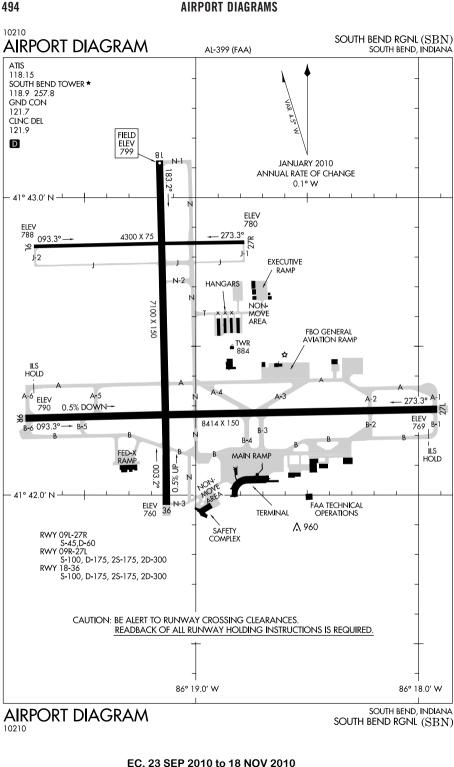


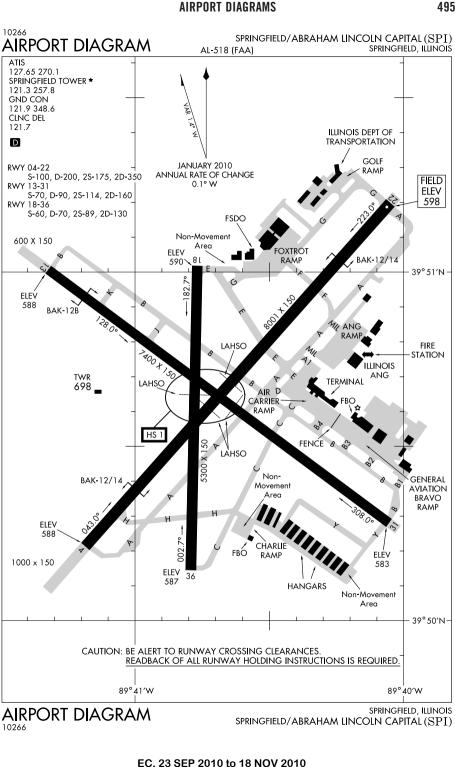


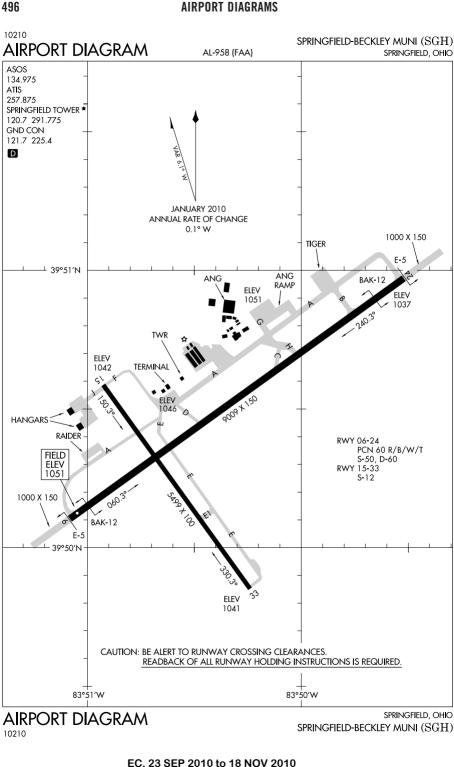


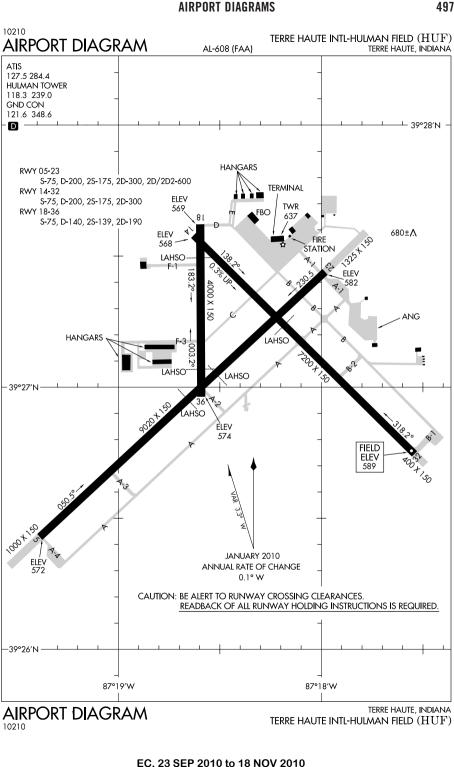


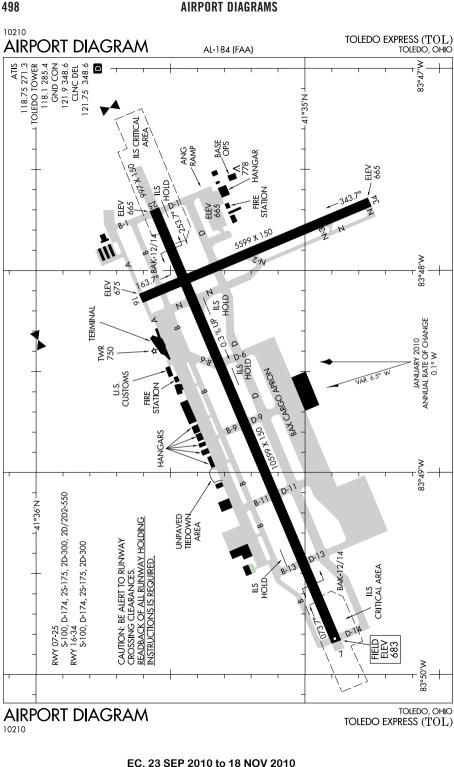


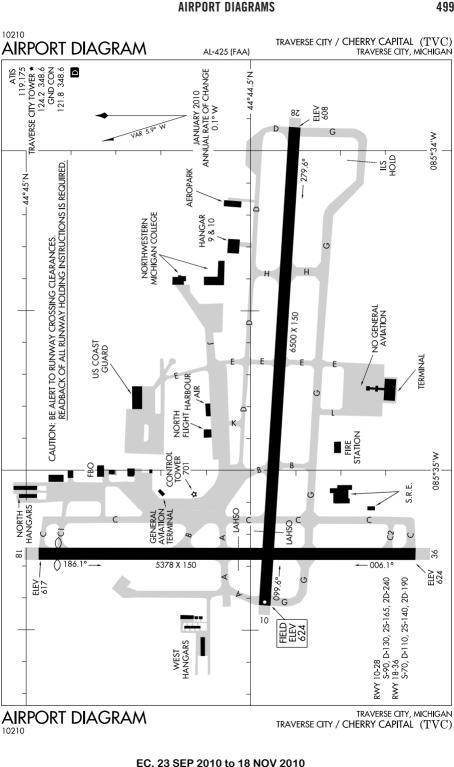


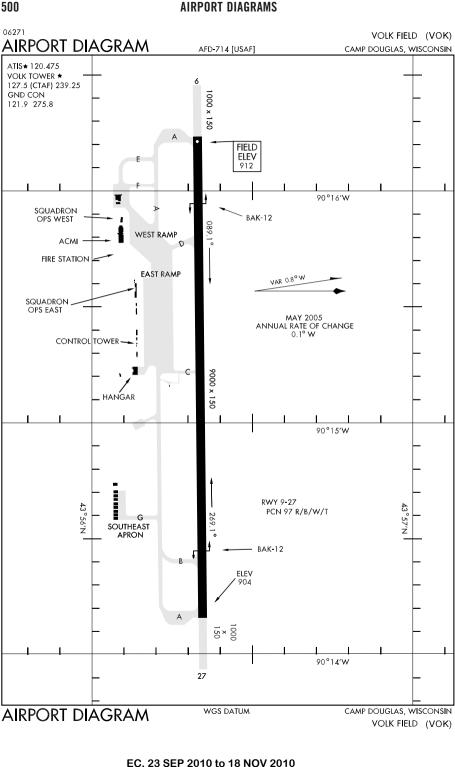


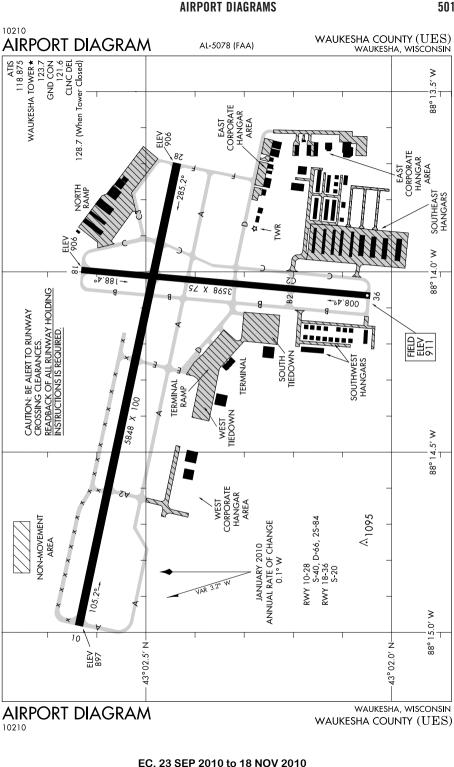


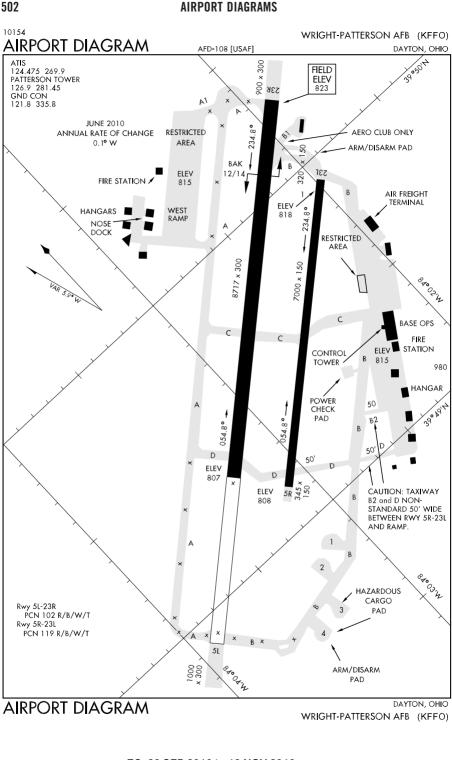




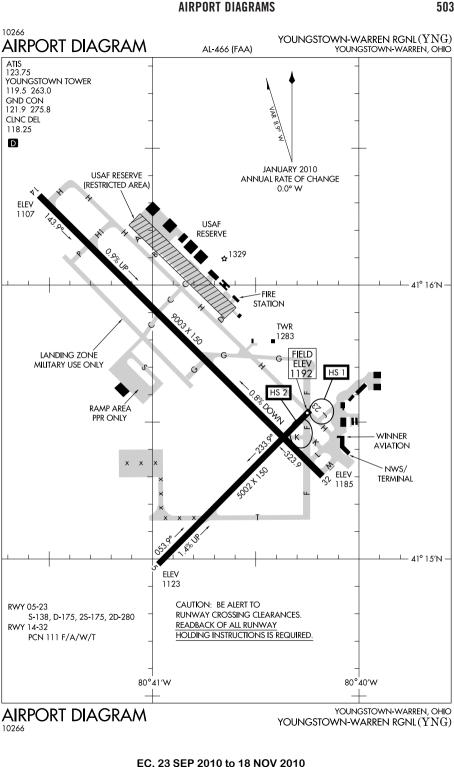








EC. 23 SEP 2010 to 18 NOV 2010



NATIONAL WEATHER SERVICE (NWS) UPPER AIR OBSERVING STATION (UAOS) AND WEATHER RADAR NETWORK

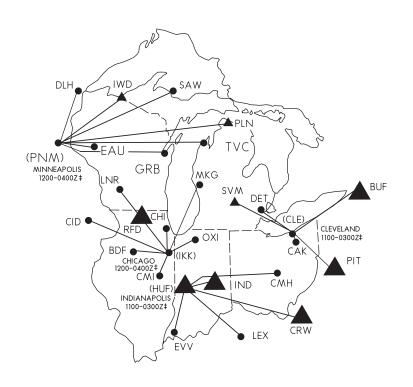


- ∧ AVIATION WEATHER SERVICE (MILITARY)
- ▲ AIR TRAFFIC CONTROL RADAR
- ★ UPPER AIR OBSERVING STATION HYDROGEN FILLED BALLOON RELEASES AROUND 1100 UTC AND 2300 UTC DAILY/RADAR
- RADAR ONLY
- UAOS-BALLOON RELEASES AROUND 1100 UTC AND 2300 UTC DAILY
- O OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE
 TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE
 AND/OR EARLY AFTERNOON

NOTE: FOR RELEASES LATER THAN 1130 UTC AND 2330 UTC, AND FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED HOURS, AN AERONAUTICAL INFORMATION MESSAGE OR NOTAM* WILL BE FILED.

ENROUTE FLIGHT ADVISORY SERVICE (EFAS)

See Aeronautical Information Manual (AIM) for available services



CHICAGO EFAS HIGH ALTITUDE FREQUENCY 134.875 CLEVELAND EFAS HIGH ALTITUDE FREQUENCY 135.425 INDIANAPOLIS EFAS HIGH ALTITUDE FREQUENCY 134.825 MINNEAPOLIS EFAS HIGH ALTITUDE FREQUENCY 135.675





BOTH LOW AND HIGH ALTITUDE COMMUNICATIONS OUTLET